



Numerical Protection Relay

*MELPRO*™-D Series

Modbus Register Map  
for TYPE CFP1-A41D1

Attachment-1 MODBUS Address Map

Coil Map

Address Range (1 to 9999)

Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks	
0	15	0001	Forced DO action setting DO1	Activate	x	0	1	No Unit	Digital Value	With a "Forced DO control setting" request from the master station as Function Code: 15, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 0001+16*i • Number of access points = 16*j • i+j<=2 (i=0 to 1, j=1 to 2) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.  • Reserved is fixed as 0. This is a usage prohibited area when adding models. (If a value other than 0 arrives, it will not be reflected.)	
1		0002	Forced DO action setting DO2	Activate	x	0	1	No Unit	Digital Value		
2		0003	Forced DO action setting DO3	Activate	x	0	1	No Unit	Digital Value		
3		0004	Forced DO action setting DO4	Activate	x	0	1	No Unit	Digital Value		
4		0005	Forced DO action setting DO5	Activate	x	0	1	No Unit	Digital Value		
5		0006	Forced DO action setting DO6	Activate	x	0	1	No Unit	Digital Value		
6		0007	Forced DO action setting DO7	Activate	x	0	1	No Unit	Digital Value		
7		0008	Forced DO action setting DO8	Activate	x	0	1	No Unit	Digital Value		
8		0009	(Reserved)				0	0			
9		0010	(Reserved)				0	0			
10		0011	(Reserved)				0	0			
11		0012	(Reserved)				0	0			
12		0013	(Reserved)				0	0			
13		0014	(Reserved)				0	0			
14		0015	(Reserved)				0	0			
15		0016	(Reserved)				0	0			
16		0017	(Reserved)				0	0			
17		0018	(Reserved)				0	0			
18		0019	(Reserved)				0	0			
19		0020	(Reserved)				0	0			
20		0021	(Reserved)				0	0			
21		0022	(Reserved)				0	0			
22		0023	(Reserved)				0	0			
23		0024	(Reserved)				0	0			
24		0025	(Reserved)				0	0			
25		0026	(Reserved)				0	0			
26		0027	(Reserved)				0	0			
27		0028	(Reserved)				0	0			
28		0029	(Reserved)				0	0			
29		0030	(Reserved)				0	0			
30		0031	(Reserved)				0	0			
31		0032	(Reserved)				0	0			
32	15	0033	Start forced DO action operation DO1	Activate	x	0	1	No Unit	Digital Value	With a "Start forced action operation" request from the master station as Function Code: 15, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 0033+16*i • Number of access points = 16*j • i+j<=2 (i=0 to 1, j=1 to 2) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.  • Reserved is fixed as 0. This is a usage prohibited area when adding models. (If a value other than 0 arrives, it will not be reflected.)	
33		0034	Start forced DO action operation DO2	Activate	x	0	1	No Unit	Digital Value		
34		0035	Start forced DO action operation DO3	Activate	x	0	1	No Unit	Digital Value		
35		0036	Start forced DO action operation DO4	Activate	x	0	1	No Unit	Digital Value		
36		0037	Start forced DO action operation DO5	Activate	x	0	1	No Unit	Digital Value		
37		0038	Start forced DO action operation DO6	Activate	x	0	1	No Unit	Digital Value		
38		0039	Start forced DO action operation DO7	Activate	x	0	1	No Unit	Digital Value		
39		0040	Start forced DO action operation DO8	Activate	x	0	1	No Unit	Digital Value		
40		0041	(Reserved)				0	0			
41		0042	(Reserved)				0	0			
42		0043	(Reserved)				0	0			
43		0044	(Reserved)				0	0			
44		0045	(Reserved)				0	0			
45		0046	(Reserved)				0	0			
46		0047	(Reserved)				0	0			
47		0048	(Reserved)				0	0			
48		0049	(Reserved)				0	0			
49		0050	(Reserved)				0	0			
50		0051	(Reserved)				0	0			
51		0052	(Reserved)				0	0			
52		0053	(Reserved)				0	0			
53		0054	(Reserved)				0	0			
54		0055	(Reserved)				0	0			
55		0056	(Reserved)				0	0			
56		0057	(Reserved)				0	0			
57		0058	(Reserved)				0	0			
58		0059	(Reserved)				0	0			
59		0060	(Reserved)				0	0			
60		0061	(Reserved)				0	0			
61		0062	(Reserved)				0	0			
62		0063	(Reserved)				0	0			
63		0064	(Reserved)				0	0			
64	15	0065	Test mode setting 1 monitor lock	On	Off	0	1	No Unit	Digital Value	With a "Test mode setting" request from the master station as Function Code: 15, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 0065+16*i • Number of access points = 16*j • i+j<=4 (i=0 to 4, j=1 to 4) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.  • Reserved is fixed as 0. (If a value other than 0 arrives, it will not be reflected.)	
65		0066	Test mode setting 2 UC phase A lock	On	Off	0	1	No Unit	Digital Value		
66		0067	Test mode setting 3 UC phase B lock	On	Off	0	1	No Unit	Digital Value		
67		0068	Test mode setting 4 UC phase C lock	On	Off	0	1	No Unit	Digital Value		
68		0069	Test mode setting 5 UV phase A lock	On	Off	0	1	No Unit	Digital Value		
69		0070	Test mode setting 6 UV phase B lock	On	Off	0	1	No Unit	Digital Value		
70		0071	Test mode setting 7 UV phase C lock	On	Off	0	1	No Unit	Digital Value		
71		0072	Test mode setting 8 OV phase A lock	On	Off	0	1	No Unit	Digital Value		
72		0073	Test mode setting 9 OV phase B lock	On	Off	0	1	No Unit	Digital Value		
73		0074	Test mode setting 10 OV phase C lock	On	Off	0	1	No Unit	Digital Value		
74		0075	Test mode setting 11 trip counter lock	On	Off	0	1	No Unit	Digital Value		
75		0076	(Reserved)				0	0			
76		0077	(Reserved)				0	0			
77		0078	(Reserved)				0	0			
78		0079	(Reserved)				0	0			
79		0080	(Reserved)				0	0			
80		0081	(Reserved)				0	0			
81		0082	(Reserved)				0	0			
82		0083	(Reserved)				0	0			
83		0084	(Reserved)				0	0			
84		0085	(Reserved)				0	0			
85		0086	(Reserved)				0	0			
86		0087	(Reserved)				0	0			
87		0088	(Reserved)				0	0			
88		0089	(Reserved)				0	0			
89		0090	(Reserved)				0	0			
90		0091	(Reserved)				0	0			
91		0092	(Reserved)				0	0			
92		0093	(Reserved)				0	0			
93		0094	(Reserved)				0	0			
94		0095	(Reserved)				0	0			
95		0096	(Reserved)				0	0			
96	0097	(Reserved)				0	0				
97	0098	(Reserved)				0	0				
98	0099	(Reserved)				0	0				
99	0100	(Reserved)				0	0				
100	0101	(Reserved)				0	0				
101	0102	(Reserved)				0	0				
102	0103	(Reserved)				0	0				
103	0104	(Reserved)				0	0				
104	0105	(Reserved)				0	0				
105	0106	(Reserved)				0	0				
106	0107	(Reserved)				0	0				
107	0108	(Reserved)				0	0				
108	0109	(Reserved)				0	0				
109	0110	(Reserved)				0	0				
110	0111	(Reserved)				0	0				
111	0112	(Reserved)				0	0				
112	0113	(Reserved)				0	0				
113	0114	(Reserved)				0	0				
114	0115	(Reserved)				0	0				
115	0116	(Reserved)				0	0				
116	0117	(Reserved)				0	0				
117	0118	(Reserved)				0	0				
118	0119	(Reserved)				0	0				
119	0120	(Reserved)				0	0				
120	0121	(Reserved)				0	0				
121	0122	(Reserved)				0	0				
122	0123	(Reserved)				0	0				
123	0124	(Reserved)				0	0				
124	0125	(Reserved)				0	0				
125	0126	(Reserved)				0	0				
126	0127	(Reserved)				0	0				
127	0128	(Reserved)				0	0				

Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks
128	15	0129	Start test mode operation 1: Monitor lock	On	Off	0	1	No Unit	Digital Value	With a "Start test mode operation" request from the master station as Function Code: 15, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 0129+16*i • Number of access points = 16*j • i+j<=4 (i=0 to 3, j=1 to 4) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.  • Reserved is fixed as 0. (If a value other than 0 arrives, it will not be reflected.)
129		0130	Start test mode operation 2: UC phase A lock	On	Off	0	1	No Unit	Digital Value	
130		0131	Start test mode operation 3: UC phase B lock	On	Off	0	1	No Unit	Digital Value	
131		0132	Start test mode operation 4: UC phase C lock	On	Off	0	1	No Unit	Digital Value	
132		0133	Start test mode operation 5: UV phase A lock	On	Off	0	1	No Unit	Digital Value	
133		0134	Start test mode operation 6: UV phase B lock	On	Off	0	1	No Unit	Digital Value	
134		0135	Start test mode operation 7: UV phase C lock	On	Off	0	1	No Unit	Digital Value	
135		0136	Start test mode operation 8: OV phase A lock	On	Off	0	1	No Unit	Digital Value	
136		0137	Start test mode operation 9: OV phase B lock	On	Off	0	1	No Unit	Digital Value	
137		0138	Start test mode operation 10: OV phase C lock	On	Off	0	1	No Unit	Digital Value	
138		0139	Start test mode operation 11: Trip counter lock	On	Off	0	1	No Unit	Digital Value	
139		0140	(Reserved)			0	0			
140		0141	(Reserved)			0	0			
141		0142	(Reserved)			0	0			
142		0143	(Reserved)			0	0			
143		0144	(Reserved)			0	0			
144		0145	(Reserved)			0	0			
145		0146	(Reserved)			0	0			
146		0147	(Reserved)			0	0			
147	0148	(Reserved)			0	0				
148	0149	(Reserved)			0	0				
149	0150	(Reserved)			0	0				
150	0151	(Reserved)			0	0				
151	0152	(Reserved)			0	0				
152	0153	(Reserved)			0	0				
153	0154	(Reserved)			0	0				
154	0155	(Reserved)			0	0				
155	0156	(Reserved)			0	0				
156	0157	(Reserved)			0	0				
157	0158	(Reserved)			0	0				
158	0159	(Reserved)			0	0				
159	0160	(Reserved)			0	0				
160	0161	(Reserved)			0	0				
161	0162	(Reserved)			0	0				
162	0163	(Reserved)			0	0				
163	0164	(Reserved)			0	0				
164	0165	(Reserved)			0	0				
165	0166	(Reserved)			0	0				
166	0167	(Reserved)			0	0				
167	0168	(Reserved)			0	0				
168	0169	(Reserved)			0	0				
169	0170	(Reserved)			0	0				
170	0171	(Reserved)			0	0				
171	0172	(Reserved)			0	0				
172	0173	(Reserved)			0	0				
173	0174	(Reserved)			0	0				
174	0175	(Reserved)			0	0				
175	0176	(Reserved)			0	0				
176	0177	(Reserved)			0	0				
177	0178	(Reserved)			0	0				
178	0179	(Reserved)			0	0				
179	0180	(Reserved)			0	0				
180	0181	(Reserved)			0	0				
181	0182	(Reserved)			0	0				
182	0183	(Reserved)			0	0				
183	0184	(Reserved)			0	0				
184	0185	(Reserved)			0	0				
185	0186	(Reserved)			0	0				
186	0187	(Reserved)			0	0				
187	0188	(Reserved)			0	0				
188	0189	(Reserved)			0	0				
189	0190	(Reserved)			0	0				
190	0191	(Reserved)			0	0				
191	0192	(Reserved)			0	0				
192	15	0193	(Reserved)							
193		0194	(Reserved)							
194		0195	(Reserved)							
195		0196	(Reserved)							
196		0197	(Reserved)							
197		0198	(Reserved)							
198		0199	(Reserved)							
199		0200	(Reserved)							
200		0201	(Reserved)							
201		0202	(Reserved)							
202		0203	(Reserved)							
203		0204	(Reserved)							
204		0205	(Reserved)							
205		0206	(Reserved)							
206	0207	(Reserved)								
207	0208	(Reserved)								
208	0209	(Reserved)								
209	0210	(Reserved)								
210	0211	(Reserved)								
211	0212	(Reserved)								
212	0213	(Reserved)								
213	0214	(Reserved)								
214	0215	(Reserved)								
215	0216	(Reserved)								
216	0217	(Reserved)								
217	0218	(Reserved)								
218	0219	(Reserved)								
219	0220	(Reserved)								
220	0221	(Reserved)								
221	0222	(Reserved)								
222	0223	(Reserved)								
223	0224	(Reserved)								
224	0225	(Reserved)								
225	0226	(Reserved)								
226	0227	(Reserved)								
227	0228	(Reserved)								
228	0229	(Reserved)								
229	0230	(Reserved)								
230	0231	(Reserved)								
231	0232	(Reserved)								
232	0233	(Reserved)								
233	0234	(Reserved)								
234	0235	(Reserved)								
235	0236	(Reserved)								
236	0237	(Reserved)								
237	0238	(Reserved)								
238	0239	(Reserved)								
239	0240	(Reserved)								
240	0241	(Reserved)								
241	0242	(Reserved)								
242	0243	(Reserved)								
243	0244	(Reserved)								
244	0245	(Reserved)								
245	0246	(Reserved)								
246	0247	(Reserved)								
247	0248	(Reserved)								
248	0249	(Reserved)								
249	0250	(Reserved)								
250	0251	(Reserved)								
251	0252	(Reserved)								
252	0253	(Reserved)								
253	0254	(Reserved)								
254	0255	(Reserved)								
255	0256	(Reserved)								



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks
256	15	0257	(Reserved)							
257		0258	(Reserved)							
258		0259	(Reserved)							
259		0260	(Reserved)							
260		0261	(Reserved)							
261		0262	(Reserved)							
262		0263	(Reserved)							
263		0264	(Reserved)							
264		0265	(Reserved)							
265		0266	(Reserved)							
266		0267	(Reserved)							
267		0268	(Reserved)							
268		0269	(Reserved)							
269		0270	(Reserved)							
270		0271	(Reserved)							
271		0272	(Reserved)							
272		0273	(Reserved)							
273		0274	(Reserved)							
274		0275	(Reserved)							
275		0276	(Reserved)							
276		0277	(Reserved)							
277		0278	(Reserved)							
278		0279	(Reserved)							
279		0280	(Reserved)							
280		0281	(Reserved)							
281		0282	(Reserved)							
282		0283	(Reserved)							
283		0284	(Reserved)							
284		0285	(Reserved)							
285		0286	(Reserved)							
286		0287	(Reserved)							
287		0288	(Reserved)							
288		0289	(Reserved)							
289		0290	(Reserved)							
290		0291	(Reserved)							
291		0292	(Reserved)							
292		0293	(Reserved)							
293		0294	(Reserved)							
294		0295	(Reserved)							
295		0296	(Reserved)							
296		0297	(Reserved)							
297		0298	(Reserved)							
298		0299	(Reserved)							
299		0300	(Reserved)							
300		0301	(Reserved)							
301		0302	(Reserved)							
302		0303	(Reserved)							
303		0304	(Reserved)							
304		0305	(Reserved)							
305		0306	(Reserved)							
306		0307	(Reserved)							
307		0308	(Reserved)							
308		0309	(Reserved)							
309		0310	(Reserved)							
310		0311	(Reserved)							
311		0312	(Reserved)							
312		0313	(Reserved)							
313		0314	(Reserved)							
314		0315	(Reserved)							
315		0316	(Reserved)							
316		0317	(Reserved)							
317		0318	(Reserved)							
318		0319	(Reserved)							
319		0320	(Reserved)							
320		0321	(Reserved)							
321		0322	(Reserved)							
322		0323	(Reserved)							
323		0324	(Reserved)							
324		0325	(Reserved)							
325		0326	(Reserved)							
326		0327	(Reserved)							
327		0328	(Reserved)							
328		0329	(Reserved)							
329		0330	(Reserved)							
330		0331	(Reserved)							
331		0332	(Reserved)							
332		0333	(Reserved)							
333		0334	(Reserved)							
334		0335	(Reserved)							
335		0336	(Reserved)							
336		0337	(Reserved)							
337		0338	(Reserved)							
338		0339	(Reserved)							
339		0340	(Reserved)							
340		0341	(Reserved)							
341		0342	(Reserved)							
342		0343	(Reserved)							
343		0344	(Reserved)							
344		0345	(Reserved)							
345		0346	(Reserved)							
346		0347	(Reserved)							
347		0348	(Reserved)							
348		0349	(Reserved)							
349		0350	(Reserved)							
350		0351	(Reserved)							
351		0352	(Reserved)							
352		0353	(Reserved)							
353		0354	(Reserved)							
354		0355	(Reserved)							
355		0356	(Reserved)							
356		0357	(Reserved)							
357		0358	(Reserved)							
358		0359	(Reserved)							
359		0360	(Reserved)							
360		0361	(Reserved)							
361		0362	(Reserved)							
362		0363	(Reserved)							
363		0364	(Reserved)							
364		0365	(Reserved)							
365		0366	(Reserved)							
366		0367	(Reserved)							
367		0368	(Reserved)							
368		0369	(Reserved)							
369		0370	(Reserved)							
370		0371	(Reserved)							
371		0372	(Reserved)							
372		0373	(Reserved)							
373		0374	(Reserved)							
374		0375	(Reserved)							
375		0376	(Reserved)							
376		0377	(Reserved)							
377		0378	(Reserved)							
378		0379	(Reserved)							
379		0380	(Reserved)							
380		0381	(Reserved)							
381		0382	(Reserved)							

Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks
382	15	0383	(Reserved)							
383		0384	(Reserved)							
384		0385	LED reset setting	Activate	x	0	1	No Unit	Digital Value	(Note 1)
385		0386	Erase event records setting	Activate	x	0	1	No Unit	Digital Value	(Note 1)
386		0387	Erase monitoring error data setting	Activate	x	0	1	No Unit	Digital Value	(Note 1)
387		0388	(Reserved)							
388		0389	Erase accident records setting	Activate	x	0	1	No Unit	Digital Value	(Note 1)
389		0390	(Reserved)							
390		0391	Get event records	Activate	x	0	1	No Unit	Digital Value	(Note 2)
391		0392	Get monitoring error records	Activate	x	0	1	No Unit	Digital Value	(Note 2)
392		0393	Get access records	Activate	x	0	1	No Unit	Digital Value	(Note 2)
393		0394	Get accident records	Activate	x	0	1	No Unit	Digital Value	(Note 3)
394		0395	CB close control setting	Activate	x	0	1	No Unit	Digital Value	
395		0396	CB open control setting	Activate	x	0	1	No Unit	Digital Value	
396		0397	CB close control operation	Activate	x	0	1	No Unit	Digital Value	
397		0398	CB open control operation	Activate	x	0	1	No Unit	Digital Value	

## Note 1:

With a request from the master station as Function Code: 15, the slave will respond with (MODBUS send) 05: ACKNOWLEDGE(ACK).

## On MODBUS:

- Start address = Each address
- Number of access points = 1

→ When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.

If another request comes from the master after the "Start operation" request has been issued but before the relay's response has completed, the slave will respond with (MODBUS send) 07: NEGATIVE ACKNOWLEDGE.

## Note 2:

With a request from the master station as Function Code: 15, the slave will respond with (MODBUS send) 05: ACKNOWLEDGE(ACK).

## On MODBUS:

- Start address = Each address
- Number of access points = 1

Fixed value.

→ When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.

If another request comes from the master after a request has been issued but before the relay's response has completed, the slave will respond with (MODBUS send) 07: NEGATIVE ACKNOWLEDGE.

If an error has occurred (recording) when the request was issued, return the error status with check get request for each record.

## Note 3:

With a request from the master station as Function Code: 15, the slave will respond with (MODBUS send) 05: ACKNOWLEDGE(ACK).

## On MODBUS:

- Start address = 0394
- Number of access points = 1

Fixed value.

→ When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.

If another request comes from the master after a request has been issued but before the relay's response has completed, the slave will respond with (MODBUS send) 07: NEGATIVE ACKNOWLEDGE.

If an error has occurred (tripped) when the request was issued, return the error status with check accident record get request (address 39813).

Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks
0	2	10001	For exclusive use of manufacturer							With a "DIGITAL I/O" request from the master station as Function Code: 2, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 10001+16*i • Number of access points = 16*j • i+j<=125 (i=0 to 124, j=1 to 125) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.
1		10002	For exclusive use of manufacturer							
2		10003	For exclusive use of manufacturer							
3		10004	For exclusive use of manufacturer							
4		10005	For exclusive use of manufacturer							
5		10006	For exclusive use of manufacturer							
6		10007	For exclusive use of manufacturer							
7		10008	For exclusive use of manufacturer							
8		10009	For exclusive use of manufacturer							
9		10010	For exclusive use of manufacturer							
10		10011	For exclusive use of manufacturer							
11		10012	For exclusive use of manufacturer							
12		10013	For exclusive use of manufacturer							
13		10014	For exclusive use of manufacturer							
14		10015	For exclusive use of manufacturer							
15		10016	For exclusive use of manufacturer							
16		10017	For exclusive use of manufacturer							
17		10018	For exclusive use of manufacturer							
18		10019	For exclusive use of manufacturer							
19		10020	For exclusive use of manufacturer							
20		10021	For exclusive use of manufacturer							
21		10022	For exclusive use of manufacturer							
22		10023	For exclusive use of manufacturer							
23		10024	For exclusive use of manufacturer							
24		10025	For exclusive use of manufacturer							
25		10026	For exclusive use of manufacturer							
26		10027	For exclusive use of manufacturer							
27		10028	For exclusive use of manufacturer							
28		10029	For exclusive use of manufacturer							
29		10030	For exclusive use of manufacturer							
30		10031	For exclusive use of manufacturer							
31		10032	For exclusive use of manufacturer							
32		10033	For exclusive use of manufacturer							
33		10034	For exclusive use of manufacturer							
34		10035	For exclusive use of manufacturer							
35		10036	For exclusive use of manufacturer							
36		10037	For exclusive use of manufacturer							
37		10038	For exclusive use of manufacturer							
38		10039	For exclusive use of manufacturer							
39		10040	For exclusive use of manufacturer							
40		10041	For exclusive use of manufacturer							
41		10042	For exclusive use of manufacturer							
42		10043	For exclusive use of manufacturer							
43		10044	For exclusive use of manufacturer							
44		10045	For exclusive use of manufacturer							
45		10046	For exclusive use of manufacturer							
46		10047	For exclusive use of manufacturer							
47		10048	For exclusive use of manufacturer							
48		10049	For exclusive use of manufacturer							
49		10050	For exclusive use of manufacturer							
50		10051	For exclusive use of manufacturer							
51		10052	For exclusive use of manufacturer							
52		10053	For exclusive use of manufacturer							
53		10054	For exclusive use of manufacturer							
54		10055	For exclusive use of manufacturer							
55		10056	For exclusive use of manufacturer							
56		10057	For exclusive use of manufacturer							
57		10058	For exclusive use of manufacturer							
58		10059	For exclusive use of manufacturer							
59		10060	For exclusive use of manufacturer							
60		10061	For exclusive use of manufacturer							
61		10062	For exclusive use of manufacturer							
62		10063	For exclusive use of manufacturer							
63		10064	For exclusive use of manufacturer							
64		10065	For exclusive use of manufacturer							
65		10066	For exclusive use of manufacturer							
66		10067	For exclusive use of manufacturer							
67		10068	For exclusive use of manufacturer							
68		10069	For exclusive use of manufacturer							
69		10070	For exclusive use of manufacturer							
70		10071	For exclusive use of manufacturer							
71		10072	For exclusive use of manufacturer							
72		10073	For exclusive use of manufacturer							
73		10074	For exclusive use of manufacturer							
74		10075	For exclusive use of manufacturer							
75		10076	For exclusive use of manufacturer							
76		10077	For exclusive use of manufacturer							
77		10078	For exclusive use of manufacturer							
78		10079	For exclusive use of manufacturer							
79		10080	For exclusive use of manufacturer							
80		10081	For exclusive use of manufacturer							
81		10082	For exclusive use of manufacturer							
82		10083	For exclusive use of manufacturer							
83		10084	For exclusive use of manufacturer							
84		10085	For exclusive use of manufacturer							
85		10086	For exclusive use of manufacturer							
86		10087	For exclusive use of manufacturer							
87		10088	For exclusive use of manufacturer							
88		10089	For exclusive use of manufacturer							
89		10090	For exclusive use of manufacturer							
90		10091	For exclusive use of manufacturer							
91		10092	For exclusive use of manufacturer							
92		10093	For exclusive use of manufacturer							
93		10094	For exclusive use of manufacturer							
94		10095	For exclusive use of manufacturer							
95		10096	For exclusive use of manufacturer							
96		10097	For exclusive use of manufacturer							
97		10098	For exclusive use of manufacturer							
98		10099	For exclusive use of manufacturer							
99		10100	For exclusive use of manufacturer							
100		10101	For exclusive use of manufacturer							
101		10102	For exclusive use of manufacturer							
102		10103	For exclusive use of manufacturer							
103		10104	For exclusive use of manufacturer							
104		10105	For exclusive use of manufacturer							
105		10106	For exclusive use of manufacturer							
106		10107	For exclusive use of manufacturer							
107		10108	For exclusive use of manufacturer							
108		10109	For exclusive use of manufacturer							
109		10110	For exclusive use of manufacturer							
110		10111	For exclusive use of manufacturer							
111		10112	For exclusive use of manufacturer							
112		10113	For exclusive use of manufacturer							
113		10114	For exclusive use of manufacturer							
114		10115	For exclusive use of manufacturer							
115		10116	For exclusive use of manufacturer							
116		10117	For exclusive use of manufacturer							
117		10118	For exclusive use of manufacturer							
118		10119	For exclusive use of manufacturer							
119		10120	For exclusive use of manufacturer							
120	10121	For exclusive use of manufacturer								



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks	
121	2	10122	For exclusive use of manufacturer							With a "DIGITAL I/O" request from the master station as Function Code: 2, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 10001+16*i • Number of access points = 16*j • i+j<=125 (i=0 to 124, j=1 to 125) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.	
122		10123	For exclusive use of manufacturer								
123		10124	For exclusive use of manufacturer								
124		10125	For exclusive use of manufacturer								
125		10126	For exclusive use of manufacturer								
126		10127	For exclusive use of manufacturer								
127		10128	For exclusive use of manufacturer								
128		10129	DI1 status		On	Off	0	1	ON/OFF		Digital Input
129		10130	DI2 status		On	Off	0	1	ON/OFF		Digital Input
130		10131	DI3 status		On	Off	0	1	ON/OFF		Digital Input
131		10132	DI4 status		On	Off	0	1	ON/OFF		Digital Input
132		10133	DI5 status		On	Off	0	1	ON/OFF		Digital Input
133		10134	DI6 status		On	Off	0	1	ON/OFF		Digital Input
134		10135	DI7 status		On	Off	0	1	ON/OFF		Digital Input
135		10136	DI8 status		On	Off	0	1	ON/OFF		Digital Input
136		10137	For exclusive use of manufacturer								
137		10138	For exclusive use of manufacturer								
138		10139	For exclusive use of manufacturer								
139		10140	For exclusive use of manufacturer								
140		10141	For exclusive use of manufacturer								
141		10142	For exclusive use of manufacturer								
142		10143	For exclusive use of manufacturer								
143		10144	(Reserved)								
144		10145	(Reserved)								
145	10146	(Reserved)									
146	10147	(Reserved)									
147	10148	(Reserved)									
148	10149	(Reserved)									
149	10150	(Reserved)									
150	10151	(Reserved)									
151	10152	(Reserved)									
152	10153	(Reserved)									
153	10154	(Reserved)									
154	10155	(Reserved)									
155	10156	(Reserved)									
156	10157	(Reserved)									
157	10158	(Reserved)									
158	10159	(Reserved)									
159	10160	(Reserved)									
160	10161	(Reserved)									
161	10162	(Reserved)									
162	10163	(Reserved)									
163	10164	(Reserved)									
164	10165	(Reserved)									
165	10166	(Reserved)									
166	10167	(Reserved)									
167	10168	(Reserved)									
168	10169	(Reserved)									
169	10170	(Reserved)									
170	10171	(Reserved)									
171	10172	(Reserved)									
172	10173	(Reserved)									
173	10174	(Reserved)									
174	10175	(Reserved)									
175	10176	(Reserved)									
176	10177	(Reserved)									
177	10178	(Reserved)									
178	10179	(Reserved)									
179	10180	(Reserved)									
180	10181	(Reserved)									
181	10182	(Reserved)									
182	10183	(Reserved)									
183	10184	(Reserved)									
184	10185	(Reserved)									
185	10186	(Reserved)									
186	10187	(Reserved)									
187	10188	(Reserved)									
188	10189	(Reserved)									
189	10190	(Reserved)									
190	10191	(Reserved)									
191	10192	(Reserved)									
192	10193	DO1 status		On	Off	0	1	ON/OFF	Digital Input		
193	10194	DO2 status		On	Off	0	1	ON/OFF	Digital Input		
194	10195	DO3 status		On	Off	0	1	ON/OFF	Digital Input		
195	10196	DO4 status		On	Off	0	1	ON/OFF	Digital Input		
196	10197	DO5 status		On	Off	0	1	ON/OFF	Digital Input		
197	10198	DO6 status		On	Off	0	1	ON/OFF	Digital Input		
198	10199	DO7 status		On	Off	0	1	ON/OFF	Digital Input		
199	10200	DO8 status		On	Off	0	1	ON/OFF	Digital Input		
200	10201	(Reserved)									
201	10202	(Reserved)									
202	10203	(Reserved)									
203	10204	(Reserved)									
204	10205	(Reserved)									
205	10206	(Reserved)									
206	10207	(Reserved)									
207	10208	All DO OR		On	Off	0	1	ON/OFF	Digital Input		
208	10209	(Reserved)									
209	10210	(Reserved)									
210	10211	(Reserved)									
211	10212	(Reserved)									
212	10213	(Reserved)									
213	10214	(Reserved)									
214	10215	(Reserved)									
215	10216	(Reserved)									
216	10217	(Reserved)									
217	10218	(Reserved)									
218	10219	(Reserved)									
219	10220	(Reserved)									
220	10221	(Reserved)									
221	10222	(Reserved)									
222	10223	(Reserved)									
223	10224	(Reserved)									
224	10225	(Reserved)									
225	10226	(Reserved)									
226	10227	(Reserved)									
227	10228	(Reserved)									
228	10229	(Reserved)									
229	10230	(Reserved)									
230	10231	(Reserved)									
231	10232	(Reserved)									
232	10233	(Reserved)									
233	10234	(Reserved)									
234	10235	(Reserved)									
235	10236	(Reserved)									
236	10237	(Reserved)									
237	10238	(Reserved)									
238	10239	(Reserved)									
239	10240	(Reserved)									
240	10241	(Reserved)									
241	10242	(Reserved)									
242	10243	(Reserved)									

Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks
243	2	10244	(Reserved)							With a "DIGITAL I/O" request from the master station as Function Code: 2, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 10001+16*i • Number of access points = 16*j • i+j<=125 (i=0 to 124, j=1 to 125) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.
244		10245	(Reserved)							
245		10246	(Reserved)							
246		10247	(Reserved)							
247		10248	(Reserved)							
248		10249	(Reserved)							
249		10250	(Reserved)							
250		10251	(Reserved)							
251		10252	(Reserved)							
252		10253	(Reserved)							
253		10254	(Reserved)							
254		10255	(Reserved)							
255		10256	(Reserved)							
256		10257	(Reserved)							
257		10258	(Reserved)							
258		10259	(Reserved)							
259		10260	(Reserved)							
260		10261	(Reserved)							
261		10262	(Reserved)							
262		10263	(Reserved)							
263		10264	(Reserved)							
264		10265	(Reserved)							
265		10266	(Reserved)							
266		10267	(Reserved)							
267		10268	(Reserved)							
268		10269	(Reserved)							
269		10270	(Reserved)							
270		10271	(Reserved)							
271		10272	(Reserved)							
272		10273	(Reserved)							
273		10274	(Reserved)							
274		10275	(Reserved)							
275		10276	(Reserved)							
276		10277	(Reserved)							
277		10278	(Reserved)							
278		10279	(Reserved)							
279	10280	(Reserved)								
280	10281	(Reserved)								
281	10282	(Reserved)								
282	10283	(Reserved)								
283	10284	(Reserved)								
284	10285	(Reserved)								
285	10286	(Reserved)								
286	10287	(Reserved)								
287	10288	(Reserved)								
288	10289	(Reserved)								
289	10290	(Reserved)								
290	10291	(Reserved)								
291	10292	(Reserved)								
292	10293	(Reserved)								
293	10294	(Reserved)								
294	10295	(Reserved)								
295	10296	(Reserved)								
296	10297	(Reserved)								
297	10298	(Reserved)								
298	10299	(Reserved)								
299	10300	(Reserved)								
300	10301	(Reserved)								
301	10302	(Reserved)								
302	10303	(Reserved)								
303	10304	(Reserved)								
304	10305	(Reserved)								
305	10306	(Reserved)								
306	10307	(Reserved)								
307	10308	(Reserved)								
308	10309	(Reserved)								
309	10310	(Reserved)								
310	10311	(Reserved)								
311	10312	(Reserved)								
312	10313	(Reserved)								
313	10314	(Reserved)								
314	10315	(Reserved)								
315	10316	(Reserved)								
316	10317	(Reserved)								
317	10318	(Reserved)								
318	10319	(Reserved)								
319	10320	(Reserved)								
320	10321	For exclusive use of manufacturer								
321	10322	For exclusive use of manufacturer								
322	10323	For exclusive use of manufacturer								
323	10324	For exclusive use of manufacturer								
324	10325	For exclusive use of manufacturer								
325	10326	For exclusive use of manufacturer								
326	10327	For exclusive use of manufacturer								
327	10328	For exclusive use of manufacturer								
328	10329	For exclusive use of manufacturer								
329	10330	For exclusive use of manufacturer								
330	10331	For exclusive use of manufacturer								
331	10332	For exclusive use of manufacturer								
332	10333	For exclusive use of manufacturer								
333	10334	For exclusive use of manufacturer								
334	10335	For exclusive use of manufacturer								
335	10336	For exclusive use of manufacturer								
336	10337	For exclusive use of manufacturer								
337	10338	For exclusive use of manufacturer								
338	10339	For exclusive use of manufacturer								
339	10340	For exclusive use of manufacturer								
340	10341	For exclusive use of manufacturer								
341	10342	For exclusive use of manufacturer								
342	10343	For exclusive use of manufacturer								
343	10344	For exclusive use of manufacturer								
344	10345	For exclusive use of manufacturer								
345	10346	For exclusive use of manufacturer								
346	10347	For exclusive use of manufacturer								
347	10348	For exclusive use of manufacturer								
348	10349	For exclusive use of manufacturer								
349	10350	For exclusive use of manufacturer								
350	10351	For exclusive use of manufacturer								
351	10352	For exclusive use of manufacturer								
352	10353	RUN status		On	Off	0	1	ON/OFF	Digital Input	
353	10354	ALARM status		On	Off	0	1	ON/OFF	Digital Input	
354	10355	Fixed red LED: Status of stage 4 left LED		On	Off	0	1	ON/OFF	Digital Input	
355	10356	Fixed red LED: Status of stage 4 middle LED		On	Off	0	1	ON/OFF	Digital Input	
356	10357	Fixed red LED: Status of stage 4 right LED		On	Off	0	1	ON/OFF	Digital Input	
357	10358	Variable (R) LED: Status of stage 1 left LED		On	Off	0	1	ON/OFF	Digital Input	
358	10359	Variable (G) LED: Status of stage 1 left LED		On	Off	0	1	ON/OFF	Digital Input	
359	10360	For exclusive use of manufacturer								
360	10361	Variable (R) LED: Status of stage 1 middle LED		On	Off	0	1	ON/OFF	Digital Input	
361	10362	Variable (G) LED: Status of stage 1 middle LED		On	Off	0	1	ON/OFF	Digital Input	
362	10363	Variable (R) LED: Status of stage 1 right LED		On	Off	0	1	ON/OFF	Digital Input	
363	10364	Variable (G) LED: Status of stage 1 right LED		On	Off	0	1	ON/OFF	Digital Input	
364	10365	Variable (R) LED: Status of stage 2 left LED		On	Off	0	1	ON/OFF	Digital Input	



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks	
365	2	10366	Variable (G) LED: Status of stage 2 left LED	On	Off	0	1	ON/OFF	Digital Input	With a "DIGITAL I/O" request from the master station as Function Code: 2, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 10001+16*i • Number of access points = 16*j • i+j<=125 (i=0 to 124, j=1 to 125) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.	
366		10367	Variable (R) LED: Status of stage 2 middle LED	On	Off	0	1	ON/OFF	Digital Input		
367		10368	Variable (G) LED: Status of stage 2 middle LED	On	Off	0	1	ON/OFF	Digital Input		
368		10369	Variable (R) LED: Status of stage 2 right LED	On	Off	0	1	ON/OFF	Digital Input		
369		10370	Variable (G) LED: Status of stage 2 right LED	On	Off	0	1	ON/OFF	Digital Input		
370		10371	Variable (R) LED: Status of stage 3 left LED	On	Off	0	1	ON/OFF	Digital Input		
371		10372	Variable (G) LED: Status of stage 3 left LED	On	Off	0	1	ON/OFF	Digital Input		
372		10373	Variable (R) LED: Status of stage 3 middle LED	On	Off	0	1	ON/OFF	Digital Input		
373		10374	Variable (G) LED: Status of stage 3 middle LED	On	Off	0	1	ON/OFF	Digital Input		
374		10375	Variable (R) LED: Status of stage 3 right LED	On	Off	0	1	ON/OFF	Digital Input		
375		10376	Variable (G) LED: Status of stage 3 right LED	On	Off	0	1	ON/OFF	Digital Input		
376		10377	For exclusive use of manufacturer								
377		10378	For exclusive use of manufacturer								
378		10379	For exclusive use of manufacturer								
379		10380	For exclusive use of manufacturer								
380		10381	For exclusive use of manufacturer								
381		10382	For exclusive use of manufacturer								
382		10383	For exclusive use of manufacturer								
383		10384	For exclusive use of manufacturer								
384		10385	Overcurrent instantaneous (50) element: Stage 1: Phase A confirmation	On	Off	0	1	ON/OFF	Digital Input		
385		10386	Overcurrent instantaneous (50) element: Stage 1: Phase B confirmation	On	Off	0	1	ON/OFF	Digital Input		
386		10387	Overcurrent instantaneous (50) element: Stage 1: Phase C confirmation	On	Off	0	1	ON/OFF	Digital Input		
387		10388	Overcurrent instantaneous (50) element: Stage 1: Zero phase confirmation	On	Off	0	1	ON/OFF	Digital Input		
388		10389	Overcurrent instantaneous (50) element: Stage 2: Phase A confirmation	On	Off	0	1	ON/OFF	Digital Input		
389		10390	Overcurrent instantaneous (50) element: Stage 2: Phase B confirmation	On	Off	0	1	ON/OFF	Digital Input		
390		10391	Overcurrent instantaneous (50) element: Stage 2: Phase C confirmation	On	Off	0	1	ON/OFF	Digital Input		
391		10392	Overcurrent instantaneous (50) element: Stage 2: Zero phase confirmation	On	Off	0	1	ON/OFF	Digital Input		
392		10393	Overcurrent instantaneous (50) element: Stage 3: Phase A confirmation	On	Off	0	1	ON/OFF	Digital Input		
393		10394	Overcurrent instantaneous (50) element: Stage 3: Phase B confirmation	On	Off	0	1	ON/OFF	Digital Input		
394		10395	Overcurrent instantaneous (50) element: Stage 3: Phase C confirmation	On	Off	0	1	ON/OFF	Digital Input		
395		10396	Overcurrent instantaneous (50) element: Stage 3: Zero phase confirmation	On	Off	0	1	ON/OFF	Digital Input		
396		10397	Overcurrent time limit (51) element: Phase A	On	Off	0	1	ON/OFF	Digital Input		
397		10398	Overcurrent time limit (51) element: Phase B	On	Off	0	1	ON/OFF	Digital Input		
398		10399	Overcurrent time limit (51) element: Phase C	On	Off	0	1	ON/OFF	Digital Input		
399		10400	Overcurrent time limit (51) element: Zero phase	On	Off	0	1	ON/OFF	Digital Input		
400		10401	Negative phase overcurrent (46) element: Stage 1 confirmation	On	Off	0	1	ON/OFF	Digital Input		
401		10402	Negative phase overcurrent (46) element: Stage 2 confirmation	On	Off	0	1	ON/OFF	Digital Input		
402		10403	Undercurrent (37) element: Stage 1: Phase A	On	Off	0	1	ON/OFF	Digital Input		
403		10404	Undercurrent (37) element: Stage 1: Phase B	On	Off	0	1	ON/OFF	Digital Input		
404		10405	Undercurrent (37) element: Stage 1: Phase C	On	Off	0	1	ON/OFF	Digital Input		
405	10406	Undercurrent (37) element: Stage 2: Phase A	On	Off	0	1	ON/OFF	Digital Input			
406	10407	Undercurrent (37) element: Stage 2: Phase B	On	Off	0	1	ON/OFF	Digital Input			
407	10408	Undercurrent (37) element: Stage 2: Phase C	On	Off	0	1	ON/OFF	Digital Input			
408	10409	Overcurrent (50BF) element for CBF detection: Phase A confirmation	On	Off	0	1	ON/OFF	Digital Input			
409	10410	Overcurrent (50BF) element for CBF detection: Phase B confirmation	On	Off	0	1	ON/OFF	Digital Input			
410	10411	Overcurrent (50BF) element for CBF detection: Phase C confirmation	On	Off	0	1	ON/OFF	Digital Input			
411	10412	Overcurrent (50BF) element for CBF detection: Zero phase confirmation	On	Off	0	1	ON/OFF	Digital Input			
412	10413	Ground directional instantaneous (67G) element: Stage 1 confirmation	On	Off	0	1	ON/OFF	Digital Input			
413	10414	Ground directional instantaneous (67G) element: Stage 2 confirmation	On	Off	0	1	ON/OFF	Digital Input			
414	10415	Ground directional instantaneous (67G) element: Stage 3 confirmation	On	Off	0	1	ON/OFF	Digital Input			
415	10416	Ground directional time limit (67G) element:	On	Off	0	1	ON/OFF	Digital Input			
416	10417	Undervoltage (27) element: Stage 1: Phase A (phase AB) confirmation	On	Off	0	1	ON/OFF	Digital Input			
417	10418	Undervoltage (27) element: Stage 1: Phase B (phase BC) confirmation	On	Off	0	1	ON/OFF	Digital Input			
418	10419	Undervoltage (27) element: Stage 1: Phase C (phase CA) confirmation	On	Off	0	1	ON/OFF	Digital Input			
419	10420	Undervoltage (27) element: Stage 2: Phase A (phase AB) confirmation	On	Off	0	1	ON/OFF	Digital Input			
420	10421	Undervoltage (27) element: Stage 2: Phase B (phase BC) confirmation	On	Off	0	1	ON/OFF	Digital Input			
421	10422	Undervoltage (27) element: Stage 2: Phase C (phase CA) confirmation	On	Off	0	1	ON/OFF	Digital Input			
422	10423	Overvoltage (59) element: Stage 1: Phase A (phase AB) confirmation	On	Off	0	1	ON/OFF	Digital Input			
423	10424	Overvoltage (59) element: Stage 1: Phase B (phase BC) confirmation	On	Off	0	1	ON/OFF	Digital Input			
424	10425	Overvoltage (59) element: Stage 1: Phase C (phase CA) confirmation	On	Off	0	1	ON/OFF	Digital Input			
425	10426	Overvoltage (59) element: Stage 2: Phase A (phase AB) confirmation	On	Off	0	1	ON/OFF	Digital Input			
426	10427	Overvoltage (59) element: Stage 2: Phase B (phase BC) confirmation	On	Off	0	1	ON/OFF	Digital Input			
427	10428	Overvoltage (59) element: Stage 2: Phase C (phase CA) confirmation	On	Off	0	1	ON/OFF	Digital Input			
428	10429	Ground overvoltage (64G) element: Stage 1	On	Off	0	1	ON/OFF	Digital Input			
429	10430	Ground overvoltage (64G) element: Stage 2	On	Off	0	1	ON/OFF	Digital Input			
430	10431	Negative phase overvoltage (47) element: Stage 1 confirmation	On	Off	0	1	ON/OFF	Digital Input			
431	10432	Negative phase overvoltage (47) element: Stage 2 confirmation	On	Off	0	1	ON/OFF	Digital Input			
432	10433	Frequency (81) element UV element for locking	On	Off	0	1	ON/OFF	Digital Input			
433	10434	Frequency decrease detection (81UF) element: Stage 1 confirmation	On	Off	0	1	ON/OFF	Digital Input			
434	10435	Frequency decrease detection (81UF) element: Stage 2 confirmation	On	Off	0	1	ON/OFF	Digital Input			
435	10436	Frequency decrease detection (81UF) element: Stage 3 confirmation	On	Off	0	1	ON/OFF	Digital Input			
436	10437	Frequency increase detection (81OF) element: Stage 1 confirmation	On	Off	0	1	ON/OFF	Digital Input			
437	10438	Frequency increase detection (81OF) element: Stage 2 confirmation	On	Off	0	1	ON/OFF	Digital Input			
438	10439	Frequency increase detection (81OF) element: Stage 3 confirmation	On	Off	0	1	ON/OFF	Digital Input			
439	10440	(Reserved)									
440	10441	(Reserved)									
441	10442	(Reserved)									
442	10443	(Reserved)									
443	10444	Trip counter ALARM	On	Off	0	1	ON/OFF	Digital Input			
444	10445	For exclusive use of manufacturer									
445	10446	Zero phase voltage monitor: Confirmation	On	Off	0	1	ON/OFF	Digital Input			

Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks
446	2	10447	Zero phase current monitor: Confirmation (available if residual type)	On	Off	0	1	ON/OFF	Digital Input	With a "DIGITAL I/O" request from the master station as Function Code: 2, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 10001+16*i • Number of access points = 16*j • i+j<=125 (i=0 to 124, j=1 to 125) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.
447		10448	(Reserved)							
448		10449	For exclusive use of manufacturer							
449		10450	For exclusive use of manufacturer							
450		10451	For exclusive use of manufacturer							
451		10452	For exclusive use of manufacturer							
452		10453	For exclusive use of manufacturer							
453		10454	For exclusive use of manufacturer							
454		10455	For exclusive use of manufacturer							
455		10456	For exclusive use of manufacturer							
456		10457	(Reserved)							
457		10458	(Reserved)							
458		10459	(Reserved)							
459		10460	(Reserved)							
460		10461	(Reserved)							
461		10462	(Reserved)							
462		10463	(Reserved)							
463		10464	(Reserved)							
464		10465	For exclusive use of manufacturer							
465		10466	For exclusive use of manufacturer							
466		10467	For exclusive use of manufacturer							
467		10468	For exclusive use of manufacturer							
468		10469	For exclusive use of manufacturer							
469		10470	For exclusive use of manufacturer							
470		10471	For exclusive use of manufacturer							
471		10472	For exclusive use of manufacturer							
472		10473	For exclusive use of manufacturer							
473		10474	For exclusive use of manufacturer							
474		10475	For exclusive use of manufacturer							
475		10476	For exclusive use of manufacturer							
476		10477	For exclusive use of manufacturer							
477		10478	For exclusive use of manufacturer							
478		10479	For exclusive use of manufacturer							
479		10480	For exclusive use of manufacturer							
480		10481	(Reserved)							
481		10482	(Reserved)							
482		10483	(Reserved)							
483		10484	(Reserved)							
484		10485	(Reserved)							
485		10486	(Reserved)							
486		10487	(Reserved)							
487		10488	(Reserved)							
488		10489	(Reserved)							
489		10490	(Reserved)							
490		10491	(Reserved)							
491		10492	(Reserved)							
492		10493	(Reserved)							
493		10494	(Reserved)							
494		10495	(Reserved)							
495		10496	(Reserved)							
496		10497	(Reserved)							
497		10498	For exclusive use of manufacturer							
498		10499	For exclusive use of manufacturer							
499		10500	For exclusive use of manufacturer							
500		10501	For exclusive use of manufacturer							
501		10502	For exclusive use of manufacturer							
502	10503	For exclusive use of manufacturer								
503	10504	For exclusive use of manufacturer								
504	10505	For exclusive use of manufacturer								
505	10506	For exclusive use of manufacturer								
506	10507	For exclusive use of manufacturer								
507	10508	For exclusive use of manufacturer								
508	10509	For exclusive use of manufacturer								
509	10510	For exclusive use of manufacturer								
510	10511	For exclusive use of manufacturer								
511	10512	For exclusive use of manufacturer								
512	10513	For exclusive use of manufacturer								
513	10514	For exclusive use of manufacturer								
514	10515	For exclusive use of manufacturer								
515	10516	For exclusive use of manufacturer								
516	10517	For exclusive use of manufacturer								
517	10518	For exclusive use of manufacturer								
518	10519	For exclusive use of manufacturer								
519	10520	For exclusive use of manufacturer								
520	10521	For exclusive use of manufacturer								
521	10522	For exclusive use of manufacturer								
522	10523	For exclusive use of manufacturer								
523	10524	For exclusive use of manufacturer								
524	10525	For exclusive use of manufacturer								
525	10526	For exclusive use of manufacturer								
526	10527	For exclusive use of manufacturer								
527	10528	(Reserved)								
528	10529	(Reserved)								
529	10530	(Reserved)								
530	10531	(Reserved)								
531	10532	(Reserved)								
532	10533	(Reserved)								
533	10534	(Reserved)								
534	10535	(Reserved)								
535	10536	(Reserved)								
536	10537	(Reserved)								
537	10538	(Reserved)								
538	10539	(Reserved)								
539	10540	(Reserved)								
540	10541	(Reserved)								
541	10542	(Reserved)								
542	10543	(Reserved)								
543	10544	(Reserved)								
544	10545	For exclusive use of manufacturer								
545	10546	For exclusive use of manufacturer								
546	10547	For exclusive use of manufacturer								
547	10548	For exclusive use of manufacturer								
548	10549	For exclusive use of manufacturer								
549	10550	For exclusive use of manufacturer								
550	10551	For exclusive use of manufacturer								
551	10552	For exclusive use of manufacturer								
552	10553	For exclusive use of manufacturer								
553	10554	For exclusive use of manufacturer								
554	10555	For exclusive use of manufacturer								
555	10556	For exclusive use of manufacturer								
556	10557	For exclusive use of manufacturer								
557	10558	For exclusive use of manufacturer								
558	10559	For exclusive use of manufacturer								
559	10560	For exclusive use of manufacturer								
560	10561	For exclusive use of manufacturer								
561	10562	For exclusive use of manufacturer								
562	10563	For exclusive use of manufacturer								
563	10564	For exclusive use of manufacturer								
564	10565	For exclusive use of manufacturer								
565	10566	For exclusive use of manufacturer								
566	10567	For exclusive use of manufacturer								



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks
567	2	10568	For exclusive use of manufacturer							With a "DIGITAL I/O" request from the master station as Function Code: 2, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 10001+16*i • Number of access points = 16*j • i+j<=125 (i=0 to 124, j=1 to 125) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.
568		10569	For exclusive use of manufacturer							
569		10570	For exclusive use of manufacturer							
570		10571	For exclusive use of manufacturer							
571		10572	For exclusive use of manufacturer							
572		10573	For exclusive use of manufacturer							
573		10574	For exclusive use of manufacturer							
574		10575	For exclusive use of manufacturer							
575		10576	For exclusive use of manufacturer							
576		10577	For exclusive use of manufacturer							
577		10578	For exclusive use of manufacturer							
578		10579	For exclusive use of manufacturer							
579		10580	For exclusive use of manufacturer							
580		10581	For exclusive use of manufacturer							
581		10582	For exclusive use of manufacturer							
582		10583	For exclusive use of manufacturer							
583		10584	For exclusive use of manufacturer							
584		10585	For exclusive use of manufacturer							
585		10586	For exclusive use of manufacturer							
586		10587	For exclusive use of manufacturer							
587		10588	For exclusive use of manufacturer							
588		10589	For exclusive use of manufacturer							
589		10590	For exclusive use of manufacturer							
590		10591	For exclusive use of manufacturer							
591		10592	For exclusive use of manufacturer							
592		10593	For exclusive use of manufacturer							
593		10594	For exclusive use of manufacturer							
594		10595	For exclusive use of manufacturer							
595		10596	For exclusive use of manufacturer							
596		10597	For exclusive use of manufacturer							
597		10598	For exclusive use of manufacturer							
598		10599	For exclusive use of manufacturer							
599		10600	For exclusive use of manufacturer							
600		10601	For exclusive use of manufacturer							
601		10602	(Reserved)							
602		10603	(Reserved)							
603		10604	(Reserved)							
604		10605	For exclusive use of manufacturer							
605		10606	For exclusive use of manufacturer							
606		10607	(Reserved)							
607		10608	(Reserved)							
608		10609	(Reserved)							
609		10610	(Reserved)							
610		10611	(Reserved)							
611		10612	(Reserved)							
612		10613	(Reserved)							
613		10614	(Reserved)							
614		10615	(Reserved)							
615		10616	(Reserved)							
616		10617	(Reserved)							
617		10618	(Reserved)							
618		10619	(Reserved)							
619		10620	(Reserved)							
620		10621	(Reserved)							
621		10622	(Reserved)							
622		10623	(Reserved)							
623		10624	(Reserved)							
624		10625	For exclusive use of manufacturer							
625		10626	For exclusive use of manufacturer							
626		10627	(Reserved)							
627		10628	(Reserved)							
628		10629	(Reserved)							
629		10630	(Reserved)							
630		10631	(Reserved)							
631		10632	(Reserved)							
632		10633	(Reserved)							
633		10634	(Reserved)							
634		10635	(Reserved)							
635	10636	(Reserved)								
636	10637	(Reserved)								
637	10638	(Reserved)								
638	10639	(Reserved)								
639	10640	(Reserved)								
640	10641	For exclusive use of manufacturer								
641	10642	(Reserved)								
642	10643	(Reserved)								
643	10644	(Reserved)								
644	10645	(Reserved)								
645	10646	(Reserved)								
646	10647	(Reserved)								
647	10648	(Reserved)								
648	10649	(Reserved)								
649	10650	(Reserved)								
650	10651	(Reserved)								
651	10652	(Reserved)								
652	10653	(Reserved)								
653	10654	(Reserved)								
654	10655	(Reserved)								
655	10656	(Reserved)								
656	10657	(Reserved)								
657	10658	(Reserved)								
658	10659	(Reserved)								
659	10660	(Reserved)								
660	10661	For exclusive use of manufacturer								
661	10662	For exclusive use of manufacturer								
662	10663	For exclusive use of manufacturer								
663	10664	(Reserved)								
664	10665	(Reserved)								
665	10666	(Reserved)								
666	10667	(Reserved)								
667	10668	(Reserved)								
668	10669	For exclusive use of manufacturer								
669	10670	(Reserved)								
670	10671	(Reserved)								
671	10672	(Reserved)								
672	10673	For exclusive use of manufacturer								
673	10674	For exclusive use of manufacturer								
674	10675	For exclusive use of manufacturer								
675	10676	For exclusive use of manufacturer								
676	10677	For exclusive use of manufacturer								
677	10678	For exclusive use of manufacturer								
678	10679	For exclusive use of manufacturer								
679	10680	For exclusive use of manufacturer								
680	10681	For exclusive use of manufacturer								
681	10682	For exclusive use of manufacturer								
682	10683	For exclusive use of manufacturer								
683	10684	For exclusive use of manufacturer								
684	10685	For exclusive use of manufacturer								
685	10686	For exclusive use of manufacturer								
686	10687	For exclusive use of manufacturer								
687	10688	(Reserved)								
688	10689	(Reserved)								



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks
689	2	10690	(Reserved)							With a "DIGITAL I/O" request from the master station as Function Code: 2, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 10001+16*i • Number of access points = 16*j • i+j<=125 (i=0 to 124, j=1 to 125) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.
690		10691	(Reserved)							
691		10692	(Reserved)							
692		10693	(Reserved)							
693		10694	(Reserved)							
694		10695	(Reserved)							
695		10696	(Reserved)							
696		10697	(Reserved)							
697		10698	(Reserved)							
698		10699	(Reserved)							
699		10700	(Reserved)							
700		10701	(Reserved)							
701		10702	(Reserved)							
702		10703	(Reserved)							
703		10704	(Reserved)							
704		10705	(Reserved)	For exclusive use of manufacturer						
705		10706	(Reserved)	For exclusive use of manufacturer						
706		10707	(Reserved)	For exclusive use of manufacturer						
707		10708	(Reserved)	For exclusive use of manufacturer						
708		10709	(Reserved)	For exclusive use of manufacturer						
709		10710	(Reserved)	For exclusive use of manufacturer						
710		10711	(Reserved)	For exclusive use of manufacturer						
711		10712	(Reserved)	For exclusive use of manufacturer						
712		10713	(Reserved)	For exclusive use of manufacturer						
713		10714	(Reserved)	For exclusive use of manufacturer						
714		10715	(Reserved)	For exclusive use of manufacturer						
715		10716	(Reserved)	(Reserved)						
716		10717	(Reserved)	(Reserved)						
717		10718	(Reserved)	(Reserved)						
718		10719	(Reserved)	(Reserved)						
719		10720	(Reserved)	(Reserved)						
720		10721	(Reserved)	(Reserved)						
721		10722	(Reserved)	(Reserved)						
722		10723	(Reserved)	(Reserved)						
723		10724	(Reserved)	(Reserved)						
724		10725	(Reserved)	(Reserved)						
725		10726	(Reserved)	(Reserved)						
726		10727	(Reserved)	(Reserved)						
727		10728	(Reserved)	(Reserved)						
728		10729	(Reserved)	(Reserved)						
729		10730	(Reserved)	(Reserved)						
730		10731	(Reserved)	(Reserved)						
731		10732	(Reserved)	(Reserved)						
732		10733	(Reserved)	(Reserved)						
733		10734	(Reserved)	(Reserved)						
734		10735	(Reserved)	(Reserved)						
735		10736	(Reserved)	(Reserved)						
736		10737	(Reserved)	(Reserved)						
737		10738	(Reserved)	(Reserved)						
738		10739	(Reserved)	(Reserved)						
739		10740	(Reserved)	(Reserved)						
740		10741	(Reserved)	(Reserved)						
741		10742	(Reserved)	(Reserved)						
742		10743	(Reserved)	(Reserved)						
743		10744	(Reserved)	(Reserved)						
744		10745	(Reserved)	(Reserved)						
745		10746	(Reserved)	(Reserved)						
746		10747	(Reserved)	(Reserved)						
747		10748	(Reserved)	(Reserved)						
748		10749	(Reserved)	(Reserved)						
749		10750	(Reserved)	(Reserved)						
750		10751	(Reserved)	(Reserved)						
751		10752	(Reserved)	(Reserved)						
752		10753	(Reserved)	(Reserved)						
753		10754	(Reserved)	(Reserved)						
754		10755	(Reserved)	(Reserved)						
755		10756	(Reserved)	(Reserved)						
756		10757	(Reserved)	(Reserved)						
757		10758	(Reserved)	(Reserved)						
758		10759	(Reserved)	(Reserved)						
759		10760	(Reserved)	(Reserved)						
760		10761	(Reserved)	(Reserved)						
761		10762	(Reserved)	(Reserved)						
762		10763	(Reserved)	(Reserved)						
763		10764	(Reserved)	(Reserved)						
764		10765	(Reserved)	(Reserved)						
765		10766	(Reserved)	(Reserved)						
766		10767	(Reserved)	(Reserved)						
767		10768	(Reserved)	(Reserved)						
768		10769	(Reserved)	(Reserved)						
769		10770	(Reserved)	(Reserved)						
770	10771	(Reserved)	(Reserved)							
771	10772	(Reserved)	(Reserved)							
772	10773	(Reserved)	(Reserved)							
773	10774	(Reserved)	(Reserved)							
774	10775	(Reserved)	(Reserved)							
775	10776	(Reserved)	(Reserved)							
776	10777	(Reserved)	(Reserved)							
777	10778	(Reserved)	(Reserved)							
778	10779	(Reserved)	(Reserved)							
779	10780	(Reserved)	(Reserved)							
780	10781	(Reserved)	(Reserved)							
781	10782	(Reserved)	(Reserved)							
782	10783	(Reserved)	(Reserved)							
783	10784	(Reserved)	(Reserved)							
784	10785	(Reserved)	For exclusive use of manufacturer							
785	10786	(Reserved)	For exclusive use of manufacturer							
786	10787	(Reserved)	For exclusive use of manufacturer							
787	10788	(Reserved)	For exclusive use of manufacturer							
788	10789	(Reserved)	For exclusive use of manufacturer							
789	10790	(Reserved)	For exclusive use of manufacturer							
790	10791	(Reserved)	For exclusive use of manufacturer							
791	10792	(Reserved)	For exclusive use of manufacturer							
792	10793	(Reserved)	(Reserved)							
793	10794	(Reserved)	(Reserved)							
794	10795	(Reserved)	(Reserved)							
795	10796	(Reserved)	(Reserved)							
796	10797	(Reserved)	(Reserved)							
797	10798	(Reserved)	(Reserved)							
798	10799	(Reserved)	(Reserved)							
799	10800	(Reserved)	(Reserved)							
800	10801	(Reserved)	For exclusive use of manufacturer							
801	10802	(Reserved)	For exclusive use of manufacturer							
802	10803	(Reserved)	For exclusive use of manufacturer							
803	10804	(Reserved)	For exclusive use of manufacturer							
804	10805	(Reserved)	For exclusive use of manufacturer							
805	10806	(Reserved)	For exclusive use of manufacturer							
806	10807	(Reserved)	For exclusive use of manufacturer							
807	10808	(Reserved)	For exclusive use of manufacturer							
808	10809	(Reserved)	For exclusive use of manufacturer							
809	10810	(Reserved)	For exclusive use of manufacturer							
810	10811	(Reserved)	For exclusive use of manufacturer							

Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks
811	2	10812	For exclusive use of manufacturer							With a "DIGITAL I/O" request from the master station as Function Code: 2, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 10001+16*i • Number of access points = 16*j • i+j<=125 (i=0 to 124, j=1 to 125) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.
812		10813	For exclusive use of manufacturer							
813		10814	For exclusive use of manufacturer							
814		10815	For exclusive use of manufacturer							
815		10816	For exclusive use of manufacturer							
816		10817	For exclusive use of manufacturer							
817		10818	For exclusive use of manufacturer							
818		10819	For exclusive use of manufacturer							
819		10820	For exclusive use of manufacturer							
820		10821	For exclusive use of manufacturer							
821		10822	For exclusive use of manufacturer							
822		10823	For exclusive use of manufacturer							
823		10824	For exclusive use of manufacturer							
824		10825	For exclusive use of manufacturer							
825		10826	For exclusive use of manufacturer							
826		10827	For exclusive use of manufacturer							
827		10828	For exclusive use of manufacturer							
828		10829	For exclusive use of manufacturer							
829		10830	For exclusive use of manufacturer							
830		10831	For exclusive use of manufacturer							
831		10832	For exclusive use of manufacturer							
832		10833	For exclusive use of manufacturer							
833		10834	For exclusive use of manufacturer							
834		10835	For exclusive use of manufacturer							
835		10836	For exclusive use of manufacturer							
836		10837	For exclusive use of manufacturer							
837		10838	For exclusive use of manufacturer							
838		10839	For exclusive use of manufacturer							
839		10840	For exclusive use of manufacturer							
840		10841	For exclusive use of manufacturer							
841		10842	For exclusive use of manufacturer							
842		10843	For exclusive use of manufacturer							
843		10844	For exclusive use of manufacturer							
844		10845	For exclusive use of manufacturer							
845		10846	For exclusive use of manufacturer							
846		10847	For exclusive use of manufacturer							
847		10848	(Reserved)							
848		10849	(Reserved)							
849		10850	(Reserved)							
850		10851	(Reserved)							
851		10852	(Reserved)							
852		10853	(Reserved)							
853		10854	(Reserved)							
854		10855	(Reserved)							
855		10856	(Reserved)							
856		10857	(Reserved)							
857		10858	(Reserved)							
858		10859	(Reserved)							
859		10860	(Reserved)							
860		10861	(Reserved)							
861		10862	(Reserved)							
862		10863	(Reserved)							
863		10864	(Reserved)							
864		10865	(Reserved)							
865		10866	(Reserved)							
866		10867	(Reserved)							
867		10868	(Reserved)							
868		10869	(Reserved)							
869		10870	(Reserved)							
870		10871	(Reserved)							
871		10872	(Reserved)							
872		10873	(Reserved)							
873		10874	(Reserved)							
874		10875	(Reserved)							
875		10876	(Reserved)							
876		10877	(Reserved)							
877		10878	(Reserved)							
878		10879	(Reserved)							
879		10880	(Reserved)							
880		10881	(Reserved)							
881		10882	(Reserved)							
882		10883	(Reserved)							
883		10884	(Reserved)							
884		10885	(Reserved)							
885		10886	(Reserved)							
886		10887	(Reserved)							
887		10888	(Reserved)							
888		10889	(Reserved)							
889		10890	(Reserved)							
890		10891	(Reserved)							
891		10892	(Reserved)							
892		10893	(Reserved)							
893		10894	(Reserved)							
894		10895	(Reserved)							
895		10896	(Reserved)							
896		10897	For exclusive use of manufacturer							
897		10898	For exclusive use of manufacturer							
898		10899	For exclusive use of manufacturer							
899		10900	For exclusive use of manufacturer							
900		10901	For exclusive use of manufacturer							
901		10902	For exclusive use of manufacturer							
902		10903	For exclusive use of manufacturer							
903		10904	For exclusive use of manufacturer							
904	10905	For exclusive use of manufacturer								
905	10906	For exclusive use of manufacturer								
906	10907	For exclusive use of manufacturer								
907	10908	For exclusive use of manufacturer								
908	10909	For exclusive use of manufacturer								
909	10910	For exclusive use of manufacturer								
910	10911	For exclusive use of manufacturer								
911	10912	For exclusive use of manufacturer								
912	10913	For exclusive use of manufacturer								
913	10914	(Reserved)								
914	10915	(Reserved)								
915	10916	(Reserved)								
916	10917	(Reserved)								
917	10918	(Reserved)								
918	10919	(Reserved)								
919	10920	(Reserved)								
920	10921	(Reserved)								
921	10922	(Reserved)								
922	10923	(Reserved)								
923	10924	(Reserved)								
924	10925	(Reserved)								
925	10926	(Reserved)								
926	10927	(Reserved)								
927	10928	(Reserved)								
928	10929	For exclusive use of manufacturer								
929	10930	For exclusive use of manufacturer								
930	10931	For exclusive use of manufacturer								
931	10932	For exclusive use of manufacturer								
932	10933	For exclusive use of manufacturer								

Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks
933	2	10934	For exclusive use of manufacturer							With a "DIGITAL I/O" request from the master station as Function Code: 2, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 10001+16*i • Number of access points = 16*j • i+j<=125 (i=0 to 124, j=1 to 125) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.
934		10935	For exclusive use of manufacturer							
935		10936	For exclusive use of manufacturer							
936		10937	For exclusive use of manufacturer							
937		10938	For exclusive use of manufacturer							
938		10939	For exclusive use of manufacturer							
939		10940	(Reserved)							
940		10941	(Reserved)							
941		10942	(Reserved)							
942		10943	(Reserved)							
943		10944	For exclusive use of manufacturer							
944		10945	For exclusive use of manufacturer							
945		10946	For exclusive use of manufacturer							
946		10947	For exclusive use of manufacturer							
947		10948	For exclusive use of manufacturer							
948		10949	For exclusive use of manufacturer							
949		10950	For exclusive use of manufacturer							
950		10951	For exclusive use of manufacturer							
951		10952	For exclusive use of manufacturer							
952		10953	For exclusive use of manufacturer							
953		10954	For exclusive use of manufacturer							
954		10955	For exclusive use of manufacturer							
955		10956	For exclusive use of manufacturer							
956		10957	For exclusive use of manufacturer							
957		10958	For exclusive use of manufacturer							
958		10959	For exclusive use of manufacturer							
959		10960	For exclusive use of manufacturer							
960		10961	(Reserved)							
961		10962	(Reserved)							
962		10963	(Reserved)							
963		10964	(Reserved)							
964		10965	(Reserved)							
965		10966	(Reserved)							
966		10967	(Reserved)							
967		10968	(Reserved)							
968		10969	(Reserved)							
969		10970	(Reserved)							
970		10971	(Reserved)							
971		10972	(Reserved)							
972		10973	(Reserved)							
973		10974	(Reserved)							
974		10975	(Reserved)							
975		10976	(Reserved)							
976		10977	For exclusive use of manufacturer							
977		10978	For exclusive use of manufacturer							
978		10979	For exclusive use of manufacturer							
979		10980	For exclusive use of manufacturer							
980		10981	For exclusive use of manufacturer							
981		10982	For exclusive use of manufacturer							
982		10983	For exclusive use of manufacturer							
983		10984	For exclusive use of manufacturer							
984		10985	For exclusive use of manufacturer							
985		10986	For exclusive use of manufacturer							
986		10987	For exclusive use of manufacturer							
987		10988	(Reserved)							
988		10989	(Reserved)							
989		10990	(Reserved)							
990		10991	(Reserved)							
991		10992	(Reserved)							
992		10993	For exclusive use of manufacturer							
993		10994	For exclusive use of manufacturer							
994		10995	For exclusive use of manufacturer							
995		10996	(Reserved)							
996		10997	(Reserved)							
997		10998	(Reserved)							
998		10999	(Reserved)							
999		11000	(Reserved)							
1000		11001	(Reserved)							
1001		11002	(Reserved)							
1002		11003	(Reserved)							
1003		11004	(Reserved)							
1004		11005	(Reserved)							
1005		11006	(Reserved)							
1006		11007	(Reserved)							
1007		11008	For exclusive use of manufacturer							
1008		11009	For exclusive use of manufacturer							
1009		11010	For exclusive use of manufacturer							
1010		11011	For exclusive use of manufacturer							
1011		11012	For exclusive use of manufacturer							
1012		11013	For exclusive use of manufacturer							
1013		11014	For exclusive use of manufacturer							
1014		11015	(Reserved)							
1015		11016	(Reserved)							
1016		11017	(Reserved)							
1017		11018	(Reserved)							
1018		11019	(Reserved)							
1019		11020	(Reserved)							
1020		11021	(Reserved)							
1021		11022	(Reserved)							
1022		11023	(Reserved)							
1023		11024	(Reserved)							
1024		11025	For exclusive use of manufacturer							
1025		11026	For exclusive use of manufacturer							
1026		11027	For exclusive use of manufacturer							
1027		11028	For exclusive use of manufacturer							
1028		11029	For exclusive use of manufacturer							
1029		11030	For exclusive use of manufacturer							
1030		11031	(Reserved)							
1031		11032	(Reserved)							
1032		11033	(Reserved)							
1033		11034	(Reserved)							
1034		11035	(Reserved)							
1035		11036	(Reserved)							
1036		11037	(Reserved)							
1037		11038	(Reserved)							
1038		11039	(Reserved)							
1039		11040	(Reserved)							
1040		11041	(Reserved)							
1041		11042	(Reserved)							
1042		11043	(Reserved)							
1043		11044	(Reserved)							
1044		11045	(Reserved)							
1045		11046	(Reserved)							
1046		11047	(Reserved)							
1047		11048	(Reserved)							
1048		11049	(Reserved)							
1049		11050	(Reserved)							
1050		11051	(Reserved)							
1051		11052	(Reserved)							
1052		11053	(Reserved)							
1053		11054	(Reserved)							
1054		11055	(Reserved)							



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks
1055	2	11056	(Reserved)							With a "DIGITAL I/O" request from the master station as Function Code: 2, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 10001+16*i • Number of access points = 16*j • i+j<=125 (i=0 to 124, j=1 to 125) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.
1056		11057	(Reserved)							
1057		11058	(Reserved)							
1058		11059	(Reserved)							
1059		11060	(Reserved)							
1060		11061	(Reserved)							
1061		11062	(Reserved)							
1062		11063	(Reserved)							
1063		11064	(Reserved)							
1064		11065	(Reserved)							
1065		11066	(Reserved)							
1066		11067	(Reserved)							
1067		11068	(Reserved)							
1068		11069	(Reserved)							
1069		11070	(Reserved)							
1070		11071	(Reserved)							
1071		11072	(Reserved)							
1072		11073	(Reserved)							
1073		11074	(Reserved)							
1074		11075	(Reserved)							
1075		11076	(Reserved)							
1076		11077	(Reserved)							
1077		11078	(Reserved)							
1078		11079	(Reserved)							
1079		11080	(Reserved)							
1080		11081	(Reserved)							
1081		11082	(Reserved)							
1082		11083	(Reserved)							
1083		11084	(Reserved)							
1084		11085	(Reserved)							
1085		11086	(Reserved)							
1086		11087	(Reserved)							
1087		11088	(Reserved)							
1088		11089	(Reserved)							
1089		11090	(Reserved)							
1090		11091	(Reserved)							
1091		11092	(Reserved)							
1092		11093	(Reserved)							
1093		11094	(Reserved)							
1094		11095	(Reserved)							
1095		11096	(Reserved)							
1096		11097	(Reserved)							
1097		11098	(Reserved)							
1098		11099	(Reserved)							
1099		11100	(Reserved)							
1100		11101	(Reserved)							
1101		11102	(Reserved)							
1102		11103	(Reserved)							
1103		11104	(Reserved)							
1104		11105	(Reserved)							
1105		11106	(Reserved)							
1106		11107	(Reserved)							
1107		11108	(Reserved)							
1108		11109	(Reserved)							
1109		11110	(Reserved)							
1110		11111	(Reserved)							
1111		11112	(Reserved)							
1112		11113	(Reserved)							
1113		11114	(Reserved)							
1114		11115	(Reserved)							
1115		11116	(Reserved)							
1116		11117	(Reserved)							
1117		11118	(Reserved)							
1118		11119	(Reserved)							
1119		11120	(Reserved)							
1120		11121	(Reserved)							
1121		11122	(Reserved)							
1122		11123	(Reserved)							
1123		11124	(Reserved)							
1124		11125	(Reserved)							
1125		11126	(Reserved)							
1126		11127	(Reserved)							
1127		11128	(Reserved)							
1128		11129	(Reserved)							
1129		11130	(Reserved)							
1130		11131	(Reserved)							
1131		11132	(Reserved)							
1132		11133	(Reserved)							
1133		11134	(Reserved)							
1134		11135	(Reserved)							
1135		11136	(Reserved)							
1136		11137	(Reserved)							
1137		11138	(Reserved)							
1138		11139	(Reserved)							
1139		11140	(Reserved)							
1140		11141	(Reserved)							
1141		11142	(Reserved)							
1142		11143	(Reserved)							
1143		11144	(Reserved)							
1144		11145	(Reserved)							
1145		11146	(Reserved)							
1146		11147	(Reserved)							
1147		11148	(Reserved)							
1148		11149	(Reserved)							
1149		11150	(Reserved)							
1150		11151	(Reserved)							
1151		11152	(Reserved)							
1152		11153	(Reserved)							
1153		11154	(Reserved)							
1154		11155	(Reserved)							
1155		11156	(Reserved)							
1156		11157	(Reserved)							
1157		11158	(Reserved)							
1158		11159	(Reserved)							
1159		11160	(Reserved)							
1160		11161	(Reserved)							
1161		11162	(Reserved)							
1162		11163	(Reserved)							
1163		11164	(Reserved)							
1164		11165	(Reserved)							
1165		11166	(Reserved)							
1166		11167	(Reserved)							
1167		11168	(Reserved)							
1168		11169	(Reserved)							
1169		11170	(Reserved)							
1170		11171	(Reserved)							
1171		11172	(Reserved)							
1172		11173	(Reserved)							
1173		11174	(Reserved)							
1174		11175	(Reserved)							
1175	11176	(Reserved)								
1176	11177	(Reserved)								

Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks	
1177	2	11178	(Reserved)							With a "DIGITAL I/O" request from the master station as Function Code: 2, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 10001+16*i • Number of access points = 16*j • i+j<=125 (i=0 to 124, j=1 to 125) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.	
1178		11179	(Reserved)								
1179		11180	(Reserved)								
1180		11181	(Reserved)								
1181		11182	(Reserved)								
1182		11183	(Reserved)								
1183		11184	(Reserved)								
1184		11185	(Reserved)								
1185		11186	(Reserved)								
1186		11187	(Reserved)								
1187		11188	(Reserved)								
1188		11189	(Reserved)								
1189		11190	(Reserved)								
1190		11191	(Reserved)								
1191		11192	(Reserved)								
1192		11193	(Reserved)								
1193		11194	(Reserved)								
1194		11195	(Reserved)								
1195		11196	(Reserved)								
1196		11197	(Reserved)								
1197		11198	(Reserved)								
1198		11199	(Reserved)								
1199		11200	(Reserved)								
1200		11201	For exclusive use of manufacturer								
1201		11202	For exclusive use of manufacturer								
1202		11203	For exclusive use of manufacturer								
1203		11204	For exclusive use of manufacturer								
1204		11205	For exclusive use of manufacturer								
1205		11206	(Reserved)								
1206		11207	(Reserved)								
1207		11208	(Reserved)								
1208		11209	(Reserved)								
1209		11210	(Reserved)								
1210		11211	For exclusive use of manufacturer								
1211		11212	(Reserved)								
1212		11213	(Reserved)								
1213		11214	(Reserved)								
1214		11215	(Reserved)								
1215		11216	(Reserved)								
1216		11217	For exclusive use of manufacturer								
1217		11218	For exclusive use of manufacturer								
1218		11219	For exclusive use of manufacturer								
1219		11220	For exclusive use of manufacturer								
1220		11221	For exclusive use of manufacturer								
1221		11222	For exclusive use of manufacturer								
1222		11223	For exclusive use of manufacturer								
1223		11224	For exclusive use of manufacturer								
1224		11225	For exclusive use of manufacturer								
1225		11226	For exclusive use of manufacturer								
1226		11227	For exclusive use of manufacturer								
1227		11228	For exclusive use of manufacturer								
1228		11229	For exclusive use of manufacturer								
1229		11230	For exclusive use of manufacturer								
1230		11231	For exclusive use of manufacturer								
1231		11232	For exclusive use of manufacturer								
1232		11233	For exclusive use of manufacturer								
1233		11234	For exclusive use of manufacturer								
1234		11235	For exclusive use of manufacturer								
1235		11236	For exclusive use of manufacturer								
1236		11237	For exclusive use of manufacturer								
1237		11238	For exclusive use of manufacturer								
1238		11239	For exclusive use of manufacturer								
1239		11240	For exclusive use of manufacturer								
1240		11241	For exclusive use of manufacturer								
1241		11242	For exclusive use of manufacturer								
1242		11243	For exclusive use of manufacturer								
1243		11244	For exclusive use of manufacturer								
1244		11245	For exclusive use of manufacturer								
1245		11246	For exclusive use of manufacturer								
1246		11247	For exclusive use of manufacturer								
1247		11248	For exclusive use of manufacturer								
1248		11249	For exclusive use of manufacturer								
1249		11250	For exclusive use of manufacturer								
1250		11251	For exclusive use of manufacturer								
1251		11252	For exclusive use of manufacturer								
1252		11253	For exclusive use of manufacturer								
1253		11254	For exclusive use of manufacturer								
1254		11255	For exclusive use of manufacturer								
1255		11256	For exclusive use of manufacturer								
1256		11257	(Reserved)								
1257		11258	(Reserved)								
1258		11259	(Reserved)								
1259		11260	(Reserved)								
1260		11261	(Reserved)								
1261		11262	(Reserved)								
1262		11263	(Reserved)								
1263		11264	(Reserved)								
1264		11265	For exclusive use of manufacturer								
1265		11266	For exclusive use of manufacturer								
1266		11267	For exclusive use of manufacturer								
1267		11268	For exclusive use of manufacturer								
1268		11269	For exclusive use of manufacturer								
1269		11270	For exclusive use of manufacturer								
1270		11271	For exclusive use of manufacturer								
1271		11272	For exclusive use of manufacturer								
1272		11273	For exclusive use of manufacturer								
1273		11274	For exclusive use of manufacturer								
1274		11275	For exclusive use of manufacturer								
1275		11276	For exclusive use of manufacturer								
1276		11277	For exclusive use of manufacturer								
1277		11278	For exclusive use of manufacturer								
1278		11279	For exclusive use of manufacturer								
1279		11280	For exclusive use of manufacturer								
1280		11281	For exclusive use of manufacturer								
1281		11282	For exclusive use of manufacturer								
1282		11283	For exclusive use of manufacturer								
1283		11284	For exclusive use of manufacturer								
1284		11285	For exclusive use of manufacturer								
1285		11286	For exclusive use of manufacturer								
1286		11287	For exclusive use of manufacturer								
1287		11288	For exclusive use of manufacturer								
1288		11289	For exclusive use of manufacturer								
1289		11290	For exclusive use of manufacturer								
1290		11291	For exclusive use of manufacturer								
1291		11292	For exclusive use of manufacturer								
1292		11293	For exclusive use of manufacturer								
1293		11294	For exclusive use of manufacturer								
1294		11295	For exclusive use of manufacturer								
1295		11296	For exclusive use of manufacturer								
1296		11297	OC1 phase A: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1297	11298	OC1 phase B: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input			
1298	11299	OC1 phase C: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input			



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks
1299	2	11300	OC1 three-phase OR: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	With a "DIGITAL I/O" request from the master station as Function Code: 2, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 10001+16*i • Number of access points = 16*j • i+j<=125 (i=0 to 124, j=1 to 125) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.
1300		11301	OC1 zero phase: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1301		11302	OC2 phase A: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1302		11303	OC2 phase B: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1303		11304	OC2 phase C: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1304		11305	OC2 three-phase OR: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1305		11306	OC2 zero phase: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1306		11307	OC3 phase A: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1307		11308	OC3 phase B: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1308		11309	OC3 phase C: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1309		11310	OC3 three-phase OR: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1310		11311	OC3 zero phase: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1311		11312	OC4 phase A: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1312		11313	OC4 phase B: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1313		11314	OC4 phase C: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1314		11315	OC4 three-phase OR: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1315		11316	OC4 zero phase: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1316		11317	OCNEG1: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1317		11318	OCNEG2: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1318		11319	UC1 phase A: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1319		11320	UC1 phase B: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1320		11321	UC1 phase C: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1321		11322	UC1 three-phase OR: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1322		11323	UC2 phase A: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1323		11324	UC2 phase B: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1324		11325	UC2 phase C: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1325		11326	UC2 three-phase OR: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1326		11327	CBF phase A: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1327		11328	CBF phase B: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1328		11329	CBF phase C: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1329		11330	CBF three-phase OR: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1330		11331	CBF zero phase: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1331		11332	DIRG1: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1332		11333	DIRG2: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1333		11334	DIRG3: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1334		11335	DIRG4: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1335		11336	UV1 phase A: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1336		11337	UV1 phase B: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1337		11338	UV1 phase C: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1338		11339	UV1 three-phase OR: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1339		11340	UV2 phase A: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1340		11341	UV2 phase B: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input	
1341	11342	UV2 phase C: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1342	11343	UV2 three-phase OR: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1343	11344	OV1 phase A: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1344	11345	OV1 phase B: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1345	11346	OV1 phase C: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1346	11347	OV1 three-phase OR: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1347	11348	OV2 phase A: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1348	11349	OV2 phase B: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1349	11350	OV2 phase C: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1350	11351	OV2 three-phase OR: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1351	11352	OVG1: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1352	11353	OVG2: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1353	11354	OVNEG1: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1354	11355	OVNEG2: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1355	11356	UF1: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1356	11357	UF2: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1357	11358	UF3: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1358	11359	OF1: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1359	11360	OF2: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1360	11361	OF3: Confirmation forced control	On	Off	x	x	ON/OFF	Digital Input		
1361		11362 (Reserved)								
1362		11363 (Reserved)								
1363		11364 (Reserved)								
1364		11365 (Reserved)								
1365		11366 (Reserved)								
1366		11367 (Reserved)								
1367		11368 (Reserved)								
1368		11369 (Reserved)								
1369		11370 (Reserved)								
1370		11371 (Reserved)								
1371		11372 (Reserved)								
1372		11373 (Reserved)								
1373		11374 (Reserved)								
1374		11375 (Reserved)								
1375		11376 (Reserved)								
1376		11377 (Reserved)								
1377		11378 (Reserved)								
1378		11379 (Reserved)								
1379		11380 (Reserved)								
1380		11381 (Reserved)								
1381		11382 (Reserved)								
1382		11383 (Reserved)								
1383		11384 (Reserved)								
1384		11385 (Reserved)								
1385		11386 (Reserved)								
1386		11387 (Reserved)								
1387		11388 (Reserved)								
1388		11389 (Reserved)								
1389		11390 (Reserved)								
1390		11391 (Reserved)								
1391		11392 (Reserved)								
1392		11393 (Reserved)								
1393		11394 (Reserved)								
1394		11395 (Reserved)								
1395		11396 (Reserved)								
1396		11397 (Reserved)								
1397		11398 (Reserved)								
1398		11399 (Reserved)								
1399		11400 (Reserved)								
1400		11401 (Reserved)								
1401		11402 (Reserved)								
1402		11403 (Reserved)								
1403		11404 (Reserved)								
1404		11405 (Reserved)								
1405		11406 (Reserved)								
1406		11407 (Reserved)								
1407		11408 (Reserved)								
1408		11409 (Reserved)								
1409		11410 (Reserved)								
1410		11411 (Reserved)								
1411		11412 (Reserved)								
1412		11413 (Reserved)								
1413		11414 (Reserved)								
1414		11415 (Reserved)								
1415		11416 (Reserved)								
1416		11417 (Reserved)								
1417		11418 (Reserved)								
1418		11419 (Reserved)								
1419		11420 (Reserved)								
1420		11421 (Reserved)								



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks
1421	2	11422	(Reserved)							With a "DIGITAL I/O" request from the master station as Function Code: 2, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 10001+16*i • Number of access points = 16*j • i+j<=125 (i=0 to 124, j=1 to 125) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.
1422		11423	(Reserved)							
1423		11424	(Reserved)							
1424		11425	(Reserved)							
1425		11426	(Reserved)							
1426		11427	(Reserved)							
1427		11428	(Reserved)							
1428		11429	(Reserved)							
1429		11430	(Reserved)							
1430		11431	(Reserved)							
1431		11432	(Reserved)							
1432		11433	(Reserved)							
1433		11434	(Reserved)							
1434		11435	(Reserved)							
1435		11436	(Reserved)							
1436		11437	(Reserved)							
1437		11438	(Reserved)							
1438		11439	(Reserved)							
1439		11440	(Reserved)							
1440		11441	(Reserved)							
1441		11442	(Reserved)							
1442		11443	(Reserved)							
1443		11444	(Reserved)							
1444		11445	(Reserved)							
1445		11446	(Reserved)							
1446		11447	(Reserved)							
1447		11448	(Reserved)							
1448		11449	(Reserved)							
1449		11450	(Reserved)							
1450		11451	(Reserved)							
1451		11452	(Reserved)							
1452		11453	(Reserved)							
1453		11454	(Reserved)							
1454		11455	(Reserved)							
1455		11456	(Reserved)							
1456		11457	(Reserved)							
1457		11458	(Reserved)							
1458		11459	(Reserved)							
1459		11460	(Reserved)							
1460		11461	(Reserved)							
1461		11462	(Reserved)							
1462		11463	(Reserved)							
1463		11464	(Reserved)							
1464		11465	(Reserved)							
1465		11466	(Reserved)							
1466		11467	(Reserved)							
1467		11468	(Reserved)							
1468		11469	(Reserved)							
1469	11470	(Reserved)								
1470	11471	(Reserved)								
1471	11472	(Reserved)								
1472	11473	(Reserved)								
1473	11474	(Reserved)								
1474	11475	(Reserved)								
1475	11476	(Reserved)								
1476	11477	(Reserved)								
1477	11478	(Reserved)								
1478	11479	(Reserved)								
1479	11480	(Reserved)								
1480	11481	(Reserved)								
1481	11482	(Reserved)								
1482	11483	(Reserved)								
1483	11484	(Reserved)								
1484	11485	(Reserved)								
1485	11486	(Reserved)								
1486	11487	(Reserved)								
1487	11488	(Reserved)								
1488	11489	(Reserved)								
1489	11490	(Reserved)								
1490	11491	(Reserved)								
1491	11492	(Reserved)								
1492	11493	(Reserved)								
1493	11494	(Reserved)								
1494	11495	(Reserved)								
1495	11496	(Reserved)								
1496	11497	(Reserved)								
1497	11498	(Reserved)								
1498	11499	(Reserved)								
1499	11500	(Reserved)								
1500	11501	(Reserved)								
1501	11502	(Reserved)								
1502	11503	(Reserved)								
1503	11504	(Reserved)								
1504	11505	(Reserved)								
1505	11506	(Reserved)								
1506	11507	(Reserved)								
1507	11508	(Reserved)								
1508	11509	(Reserved)								
1509	11510	(Reserved)								
1510	11511	(Reserved)								
1511	11512	(Reserved)								
1512	11513	(Reserved)								
1513	11514	(Reserved)								
1514	11515	(Reserved)								
1515	11516	(Reserved)								
1516	11517	(Reserved)								
1517	11518	(Reserved)								
1518	11519	(Reserved)								
1519	11520	(Reserved)								
1520	11521	(Reserved)								
1521	11522	(Reserved)								
1522	11523	(Reserved)								
1523	11524	(Reserved)								
1524	11525	(Reserved)								
1525	11526	(Reserved)								
1526	11527	(Reserved)								
1527	11528	(Reserved)								
1528	11529	(Reserved)								
1529	11530	(Reserved)								
1530	11531	(Reserved)								
1531	11532	(Reserved)								
1532	11533	(Reserved)								
1533	11534	(Reserved)								
1534	11535	(Reserved)								
1535	11536	(Reserved)								
1536	11537	(Reserved)								
1537	11538	(Reserved)								
1538	11539	(Reserved)								
1539	11540	(Reserved)								
1540	11541	(Reserved)								
1541	11542	(Reserved)								
1542	11543	(Reserved)								

Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks
1543	2	11544	(Reserved)							With a "DIGITAL I/O" request from the master station as Function Code: 2, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 10001+16*i • Number of access points = 16*j • i+j<=125 (i=0 to 124, j=1 to 125) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.
1544		11545	(Reserved)							
1545		11546	(Reserved)							
1546		11547	(Reserved)							
1547		11548	(Reserved)							
1548		11549	(Reserved)							
1549		11550	(Reserved)							
1550		11551	(Reserved)							
1551		11552	(Reserved)							
1552		11553	OC1 phase A: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input	
1553		11554	OC1 phase B: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input	
1554		11555	OC1 phase C: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input	
1555		11556	OC1 three-phase OR: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input	
1556		11557	OC1 zero phase: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input	
1557		11558	OC2 phase A: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input	
1558		11559	OC2 phase B: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input	
1559		11560	OC2 phase C: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input	
1560		11561	OC2 three-phase OR: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input	
1561		11562	OC2 zero phase: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input	
1562		11563	OC3 phase A: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input	
1563		11564	OC3 phase B: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input	
1564		11565	OC3 phase C: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input	
1565		11566	OC3 three-phase OR: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input	
1566		11567	OC3 zero phase: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input	
1567		11568	OC4 phase A: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input	
1568		11569	OC4 phase B: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input	
1569	11570	OC4 phase C: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1570	11571	OC4 three-phase OR: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1571	11572	OC4 zero phase: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1572	11573	OCNEG1: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1573	11574	OCNEG2: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1574	11575	UC1 phase A: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1575	11576	UC1 phase B: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1576	11577	UC1 phase C: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1577	11578	UC1 three-phase OR: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1578	11579	UC2 phase A: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1579	11580	UC2 phase B: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1580	11581	UC2 phase C: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1581	11582	UC2 three-phase OR: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1582	11583	CBF phase A: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1583	11584	CBF phase B: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1584	11585	CBF phase C: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1585	11586	CBF three-phase OR: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1586	11587	CBF zero phase: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1587	11588	DIRG1: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1588	11589	DIRG2: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1589	11590	DIRG3: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1590	11591	DIRG4: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1591	11592	UV1 phase A: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1592	11593	UV1 phase B: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1593	11594	UV1 phase C: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1594	11595	UV1 three-phase OR: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1595	11596	UV2 phase A: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1596	11597	UV2 phase B: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1597	11598	UV2 phase C: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1598	11599	UV2 three-phase OR: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1599	11600	OV1 phase A: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1600	11601	OV1 phase B: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1601	11602	OV1 phase C: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1602	11603	OV1 three-phase OR: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1603	11604	OV2 phase A: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1604	11605	OV2 phase B: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1605	11606	OV2 phase C: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1606	11607	OV2 three-phase OR: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		

Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks	
1607	2	11608	OVG1: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input	With a "DIGITAL I/O" request from the master station as Function Code: 2, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 10001+16*i • Number of access points = 16*j • i+j<=125 (i=0 to 124, j=1 to 125) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.	
1608		11609	OVG2: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1609		11610	OVNEG1: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1610		11611	OVNEG2: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1611		11612	UF1: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1612		11613	UF2: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1613		11614	UF3: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1614		11615	OF1: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1615		11616	OF2: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1616		11617	OF3: Confirmation & forced relay control signal OR	On	Off	x	x	ON/OFF	Digital Input		
1617		11618	(Reserved)								
1618		11619	(Reserved)								
1619		11620	(Reserved)								
1620		11621	(Reserved)								
1621		11622	(Reserved)								
1622		11623	(Reserved)								
1623		11624	(Reserved)								
1624	11625	(Reserved)									
1625	11626	(Reserved)									
1626	11627	(Reserved)									
1627	11628	(Reserved)									
1628	11629	(Reserved)									
1629	11630	(Reserved)									
1630	11631	(Reserved)									
1631	11632	(Reserved)									
1632	11633	(Reserved)									
1633	11634	(Reserved)									
1634	11635	(Reserved)									
1635	11636	(Reserved)									
1636	11637	(Reserved)									
1637	11638	(Reserved)									
1638	11639	(Reserved)									
1639	11640	(Reserved)									
1640	11641	(Reserved)									
1641	11642	(Reserved)									
1642	11643	(Reserved)									
1643	11644	(Reserved)									
1644	11645	(Reserved)									
1645	11646	(Reserved)									
1646	11647	(Reserved)									
1647	11648	(Reserved)									
1648	11649	(Reserved)									
1649	11650	(Reserved)									
1650	11651	(Reserved)									
1651	11652	(Reserved)									
1652	11653	(Reserved)									
1653	11654	(Reserved)									
1654	11655	(Reserved)									
1655	11656	(Reserved)									
1656	11657	(Reserved)									
1657	11658	(Reserved)									
1658	11659	(Reserved)									
1659	11660	(Reserved)									
1660	11661	(Reserved)									
1661	11662	(Reserved)									
1662	11663	(Reserved)									
1663	11664	(Reserved)									
1664	11665	(Reserved)									
1665	11666	(Reserved)									
1666	11667	(Reserved)									
1667	11668	(Reserved)									
1668	11669	(Reserved)									
1669	11670	(Reserved)									
1670	11671	(Reserved)									
1671	11672	(Reserved)									
1672	11673	(Reserved)									
1673	11674	(Reserved)									
1674	11675	(Reserved)									
1675	11676	(Reserved)									
1676	11677	(Reserved)									
1677	11678	(Reserved)									
1678	11679	(Reserved)									
1679	11680	(Reserved)									
1680	11681	(Reserved)									
1681	11682	(Reserved)									
1682	11683	(Reserved)									
1683	11684	(Reserved)									
1684	11685	(Reserved)									
1685	11686	(Reserved)									
1686	11687	(Reserved)									
1687	11688	(Reserved)									
1688	11689	(Reserved)									
1689	11690	(Reserved)									
1690	11691	(Reserved)									
1691	11692	(Reserved)									
1692	11693	(Reserved)									
1693	11694	(Reserved)									
1694	11695	(Reserved)									
1695	11696	(Reserved)									
1696	11697	(Reserved)									
1697	11698	(Reserved)									
1698	11699	(Reserved)									
1699	11700	(Reserved)									
1700	11701	(Reserved)									
1701	11702	(Reserved)									
1702	11703	(Reserved)									
1703	11704	(Reserved)									
1704	11705	(Reserved)									
1705	11706	(Reserved)									
1706	11707	(Reserved)									
1707	11708	(Reserved)									
1708	11709	(Reserved)									
1709	11710	(Reserved)									
1710	11711	(Reserved)									
1711	11712	(Reserved)									
1712	11713	(Reserved)									
1713	11714	(Reserved)									
1714	11715	(Reserved)									
1715	11716	(Reserved)									
1716	11717	(Reserved)									
1717	11718	(Reserved)									



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks
1718	2	11719	(Reserved)							With a "DIGITAL I/O" request from the master station as Function Code: 2, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 10001+16*i • Number of access points = 16*j • i+j<=125 (i=0 to 124, j=1 to 125) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.
1719		11720	(Reserved)							
1720		11721	(Reserved)							
1721		11722	(Reserved)							
1722		11723	(Reserved)							
1723		11724	(Reserved)							
1724		11725	(Reserved)							
1725		11726	(Reserved)							
1726		11727	(Reserved)							
1727		11728	(Reserved)							
1728		11729	(Reserved)							
1729		11730	(Reserved)							
1730		11731	(Reserved)							
1731		11732	(Reserved)							
1732		11733	(Reserved)							
1733		11734	(Reserved)							
1734		11735	(Reserved)							
1735		11736	(Reserved)							
1736		11737	(Reserved)							
1737		11738	(Reserved)							
1738		11739	(Reserved)							
1739		11740	(Reserved)							
1740		11741	(Reserved)							
1741		11742	(Reserved)							
1742		11743	(Reserved)							
1743		11744	(Reserved)							
1744		11745	(Reserved)							
1745		11746	(Reserved)							
1746		11747	(Reserved)							
1747		11748	(Reserved)							
1748		11749	(Reserved)							
1749		11750	(Reserved)							
1750		11751	(Reserved)							
1751		11752	(Reserved)							
1752		11753	(Reserved)							
1753		11754	(Reserved)							
1754		11755	(Reserved)							
1755		11756	(Reserved)							
1756		11757	(Reserved)							
1757		11758	(Reserved)							
1758		11759	(Reserved)							
1759		11760	(Reserved)							
1760		11761	(Reserved)							
1761		11762	(Reserved)							
1762		11763	(Reserved)							
1763		11764	(Reserved)							
1764		11765	(Reserved)							
1765		11766	(Reserved)							
1766		11767	(Reserved)							
1767		11768	(Reserved)							
1768		11769	(Reserved)							
1769		11770	(Reserved)							
1770		11771	(Reserved)							
1771		11772	(Reserved)							
1772		11773	(Reserved)							
1773		11774	(Reserved)							
1774		11775	(Reserved)							
1775		11776	(Reserved)							
1776		11777	(Reserved)							
1777		11778	(Reserved)							
1778		11779	(Reserved)							
1779		11780	(Reserved)							
1780		11781	(Reserved)							
1781		11782	(Reserved)							
1782		11783	(Reserved)							
1783		11784	(Reserved)							
1784		11785	(Reserved)							
1785		11786	(Reserved)							
1786		11787	(Reserved)							
1787		11788	(Reserved)							
1788		11789	(Reserved)							
1789		11790	(Reserved)							
1790		11791	(Reserved)							
1791		11792	(Reserved)							
1792		11793	(Reserved)							
1793		11794	(Reserved)							
1794		11795	(Reserved)							
1795		11796	(Reserved)							
1796		11797	(Reserved)							
1797		11798	(Reserved)							
1798		11799	(Reserved)							
1799		11800	(Reserved)							
1800		11801	(Reserved)							
1801		11802	(Reserved)							
1802		11803	(Reserved)							
1803		11804	(Reserved)							
1804		11805	(Reserved)							
1805		11806	(Reserved)							
1806		11807	(Reserved)							
1807		11808	(Reserved)							
1808		11809	For exclusive use of manufacturer							
1809		11810	For exclusive use of manufacturer							
1810		11811	For exclusive use of manufacturer							
1811		11812	For exclusive use of manufacturer							
1812		11813	For exclusive use of manufacturer							
1813		11814	For exclusive use of manufacturer							
1814		11815	For exclusive use of manufacturer							
1815		11816	For exclusive use of manufacturer							
1816		11817	For exclusive use of manufacturer							
1817		11818	For exclusive use of manufacturer							
1818		11819	For exclusive use of manufacturer							
1819		11820	For exclusive use of manufacturer							
1820		11821	For exclusive use of manufacturer							
1821		11822	For exclusive use of manufacturer							
1822		11823	For exclusive use of manufacturer							
1823		11824	For exclusive use of manufacturer							
1824		11825	For exclusive use of manufacturer							
1825		11826	For exclusive use of manufacturer							
1826		11827	For exclusive use of manufacturer							
1827		11828	For exclusive use of manufacturer							
1828		11829	For exclusive use of manufacturer							
1829		11830	For exclusive use of manufacturer							
1830		11831	For exclusive use of manufacturer							
1831		11832	For exclusive use of manufacturer							
1832		11833	For exclusive use of manufacturer							
1833		11834	For exclusive use of manufacturer							
1834		11835	For exclusive use of manufacturer							
1835		11836	For exclusive use of manufacturer							
1836		11837	For exclusive use of manufacturer							
1837		11838	For exclusive use of manufacturer							
1838		11839	For exclusive use of manufacturer							
1839		11840	For exclusive use of manufacturer							

Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks
1840	2	11841	(Reserved)							With a "DIGITAL I/O" request from the master station as Function Code: 2, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 10001+16*i • Number of access points = 16*j • i+j<=125 (i=0 to 124, j=1 to 125) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.
1841		11842	(Reserved)							
1842		11843	(Reserved)							
1843		11844	(Reserved)							
1844		11845	(Reserved)							
1845		11846	(Reserved)							
1846		11847	(Reserved)							
1847		11848	(Reserved)							
1848		11849	(Reserved)							
1849		11850	(Reserved)							
1850		11851	(Reserved)							
1851		11852	(Reserved)							
1852		11853	(Reserved)							
1853		11854	(Reserved)							
1854		11855	(Reserved)							
1855		11856	(Reserved)							
1856		11857	(Reserved)							
1857		11858	(Reserved)							
1858		11859	(Reserved)							
1859		11860	(Reserved)							
1860		11861	(Reserved)							
1861		11862	(Reserved)							
1862		11863	(Reserved)							
1863		11864	(Reserved)							
1864		11865	(Reserved)							
1865		11866	(Reserved)							
1866		11867	(Reserved)							
1867		11868	(Reserved)							
1868		11869	(Reserved)							
1869		11870	(Reserved)							
1870		11871	(Reserved)							
1871		11872	(Reserved)							
1872		11873	(Reserved)							
1873		11874	(Reserved)							
1874		11875	(Reserved)							
1875		11876	(Reserved)							
1876		11877	(Reserved)							
1877		11878	(Reserved)							
1878		11879	(Reserved)							
1879		11880	(Reserved)							
1880		11881	(Reserved)							
1881		11882	(Reserved)							
1882		11883	(Reserved)							
1883		11884	(Reserved)							
1884		11885	(Reserved)							
1885		11886	(Reserved)							
1886	11887	(Reserved)								
1887	11888	(Reserved)								
1888	11889	(Reserved)								
1889	11890	(Reserved)								
1890	11891	(Reserved)								
1891	11892	(Reserved)								
1892	11893	(Reserved)								
1893	11894	(Reserved)								
1894	11895	(Reserved)								
1895	11896	(Reserved)								
1896	11897	(Reserved)								
1897	11898	(Reserved)								
1898	11899	(Reserved)								
1899	11900	(Reserved)								
1900	11901	(Reserved)								
1901	11902	(Reserved)								
1902	11903	(Reserved)								
1903	11904	(Reserved)								
1904	11905	(Reserved)								
1905	11906	(Reserved)								
1906	11907	(Reserved)								
1907	11908	(Reserved)								
1908	11909	(Reserved)								
1909	11910	(Reserved)								
1910	11911	(Reserved)								
1911	11912	(Reserved)								
1912	11913	(Reserved)								
1913	11914	(Reserved)								
1914	11915	(Reserved)								
1915	11916	(Reserved)								
1916	11917	(Reserved)								
1917	11918	(Reserved)								
1918	11919	(Reserved)								
1919	11920	(Reserved)								
1920	11921	(Reserved)								
1921	11922	(Reserved)								
1922	11923	(Reserved)								
1923	11924	(Reserved)								
1924	11925	(Reserved)								
1925	11926	(Reserved)								
1926	11927	(Reserved)								
1927	11928	(Reserved)								
1928	11929	(Reserved)								
1929	11930	(Reserved)								
1930	11931	(Reserved)								
1931	11932	(Reserved)								
1932	11933	(Reserved)								
1933	11934	(Reserved)								
1934	11935	(Reserved)								
1935	11936	(Reserved)								
1936	11937	(Reserved)								
1937	11938	(Reserved)								
1938	11939	(Reserved)								
1939	11940	(Reserved)								
1940	11941	(Reserved)								
1941	11942	(Reserved)								
1942	11943	(Reserved)								
1943	11944	(Reserved)								
1944	11945	(Reserved)								
1945	11946	(Reserved)								
1946	11947	(Reserved)								
1947	11948	(Reserved)								
1948	11949	(Reserved)								
1949	11950	(Reserved)								
1950	11951	(Reserved)								
1951	11952	(Reserved)								
1952	11953	(Reserved)								
1953	11954	(Reserved)								
1954	11955	(Reserved)								
1955	11956	(Reserved)								
1956	11957	(Reserved)								
1957	11958	(Reserved)								
1958	11959	(Reserved)								
1959	11960	(Reserved)								
1960	11961	(Reserved)								
1961	11962	(Reserved)								

Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Signal Type	Remarks
1962	2	11963	(Reserved)							With a "DIGITAL I/O" request from the master station as Function Code: 2, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 10001+16*i • Number of access points = 16*j • i+j<=125 (i=0 to 124, j=1 to 125) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.
1963		11964	(Reserved)							
1964		11965	(Reserved)							
1965		11966	(Reserved)							
1966		11967	(Reserved)							
1967		11968	(Reserved)							
1968		11969	(Reserved)							
1969		11970	(Reserved)							
1970		11971	(Reserved)							
1971		11972	(Reserved)							
1972		11973	(Reserved)							
1973		11974	(Reserved)							
1974		11975	(Reserved)							
1975		11976	(Reserved)							
1976		11977	(Reserved)							
1977		11978	(Reserved)							
1978		11979	(Reserved)							
1979		11980	(Reserved)							
1980		11981	(Reserved)							
1981		11982	(Reserved)							
1982		11983	(Reserved)							
1983		11984	(Reserved)							
1984		11985	(Reserved)							
1985		11986	(Reserved)							
1986		11987	(Reserved)							
1987		11988	(Reserved)							
1988		11989	(Reserved)							
1989		11990	(Reserved)							
1990		11991	(Reserved)							
1991		11992	(Reserved)							
1992		11993	(Reserved)							
1993		11994	(Reserved)							
1994		11995	(Reserved)							
1995		11996	(Reserved)							
1996		11997	(Reserved)							
1997		11998	(Reserved)							
1998		11999	(Reserved)							
1999		12000	(Reserved)							



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Scale	Signal Type	Remarks	
0	4	30001	Get measured value 1 (H): Phase A voltage	x	x	0	1500	V	1	Analog Input	With a "Measured value" request from the master station as Function Code: 4, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 30001+2*i • Number of access points = 2*j • i+j<=60 (i=0 to 59, j=1 to 60) → When an error occurs, the slave will respond with 02: ILLEGAL DATA ADDRESS.  * The displayed value depending on the zero-sequence current type. *1: ZCT Type *2: 5A Type	
1		30002	Get measured value 1 (L): Phase A voltage									
2		30003	Get measured value 2 (H): Phase B voltage	x	x	0	1500	V	1	Analog Input		
3		30004	Get measured value 2 (L): Phase B voltage									
4		30005	Get measured value 3 (H): Phase C voltage	x	x	0	1500	V	1	Analog Input		
5		30006	Get measured value 3 (L): Phase C voltage									
6		30007	Get measured value 4 (H): Phase AB voltage	x	x	0	2600	V	1	Analog Input		
7		30008	Get measured value 4 (L): Phase AB voltage									
8		30009	Get measured value 5 (H): Phase BC voltage	x	x	0	2600	V	1	Analog Input		
9		30010	Get measured value 5 (L): Phase BC voltage									
10		30011	Get measured value 6 (H): Phase CA voltage	x	x	0	2600	V	1	Analog Input		
11		30012	Get measured value 6 (L): Phase CA voltage									
12		30013	Get measured value 7 (H): Zero phase voltage	x	x	0	2470	V	1	Analog Input		
13		30014	Get measured value 7 (L): Zero phase voltage									
14		30015	Get measured value 8 (H): Zero phase voltage	x	x	0	2470	V	1	Analog Input		
15		30016	Get measured value 8 (L): Zero phase voltage									
16		30017	Get measured value 9 (H): Positive phase voltage	x	x	0	1500	V	1	Analog Input		
17		30018	Get measured value 9 (L): Positive phase voltage									
18		30019	Get measured value 10 (H): Negative phase voltage	x	x	0	1500	V	1	Analog Input		
19		30020	Get measured value 10 (L): Negative phase voltage									
20		30021	Get measured value 11 (H): Phase A current	x	x	0	1000	A	2	Analog Input		
21		30022	Get measured value 11 (L): Phase A current									
22		30023	Get measured value 12 (H): Phase B current	x	x	0	1000	A	2	Analog Input		
23		30024	Get measured value 12 (L): Phase B current									
24		30025	Get measured value 13 (H): Phase C current	x	x	0	1000	A	2	Analog Input		
25		30026	Get measured value 13 (L): Phase C current									
26		30027	Get measured value 14 (H): Zero phase current *	x	x	0	9999 *1 1000 *2	mA *1 A *2	1 *1 2 *2			Analog Input
27		30028	Get measured value 14 (L): Zero phase current *									
28		30029	For exclusive use of manufacturer (not displayed on									
29		30030	For exclusive use of manufacturer (not displayed on									
30		30031	Get measured value 16 (H): Positive phase current	x	x	0	1000	A	2	Analog Input		
31		30032	Get measured value 16 (L): Positive phase current									
32		30033	Get measured value 17 (H): Negative phase current	x	x	0	1000	A	2	Analog Input		
33		30034	Get measured value 17 (L): Negative phase current									
34		30035	For exclusive use of manufacturer (not displayed on									
35		30036	For exclusive use of manufacturer (not displayed on									
36		30037	For exclusive use of manufacturer (not displayed on									
37		30038	For exclusive use of manufacturer (not displayed on									
38		30039	For exclusive use of manufacturer (not displayed on									
39		30040	For exclusive use of manufacturer (not displayed on									
40		30041	For exclusive use of manufacturer (not displayed on									
41		30042	For exclusive use of manufacturer (not displayed on									
42		30043	For exclusive use of manufacturer (not displayed on									
43		30044	For exclusive use of manufacturer (not displayed on									
44		30045	For exclusive use of manufacturer (not displayed on									
45		30046	For exclusive use of manufacturer (not displayed on									
46		30047	For exclusive use of manufacturer (not displayed on									
47		30048	For exclusive use of manufacturer (not displayed on									
48		30049	For exclusive use of manufacturer (not displayed on									
49		30050	For exclusive use of manufacturer (not displayed on									
50		30051	Get measured value 18 (H): Phase A voltage phase	x	x	0	3599	°LAG	1			Analog Input
51		30052	Get measured value 18 (L): Phase A voltage phase									
52		30053	Get measured value 19 (H): Phase B voltage phase	x	x	0	3599	°LAG	1			Analog Input
53		30054	Get measured value 19 (L): Phase B voltage phase									
54		30055	Get measured value 20 (H): Phase C voltage phase	x	x	0	3599	°LAG	1			Analog Input
55		30056	Get measured value 20 (L): Phase C voltage phase									
56		30057	Get measured value 21 (H): Phase AB voltage phase	x	x	0	3599	°LAG	1			Analog Input
57		30058	Get measured value 21 (L): Phase AB voltage phase									
58		30059	Get measured value 22 (H): Phase BC voltage phase	x	x	0	3599	°LAG	1			Analog Input
59		30060	Get measured value 22 (L): Phase BC voltage phase									
60		30061	Get measured value 23 (H): Phase CA voltage phase	x	x	0	3599	°LAG	1			Analog Input
61		30062	Get measured value 23 (L): Phase CA voltage phase									
62		30063	Get measured value 24 (H): Zero phase voltage	x	x	0	3599	°LAG	1			Analog Input
63		30064	Get measured value 24 (L): Zero phase voltage phase									
64		30065	Get measured value 25 (H): Phase A current phase	x	x	0	3599	°LAG	1			Analog Input
65		30066	Get measured value 25 (L): Phase A current phase									
66		30067	Get measured value 26 (H): Phase B current phase	x	x	0	3599	°LAG	1			Analog Input
67		30068	Get measured value 26 (L): Phase B current phase									
68		30069	Get measured value 27 (H): Phase C current phase	x	x	0	3599	°LAG	1			Analog Input
69		30070	Get measured value 27 (L): Phase C current phase									
70		30071	Get measured value 28 (H): Zero phase current phase	x	x	0	3599	°LAG	1			Analog Input
71		30072	Get measured value 28 (L): Zero phase current phase									
72		30073	For exclusive use of manufacturer (not displayed on									
73		30074	For exclusive use of manufacturer (not displayed on									
74		30075	For exclusive use of manufacturer (not displayed on									
75		30076	For exclusive use of manufacturer (not displayed on									
76		30077	For exclusive use of manufacturer (not displayed on									
77		30078	For exclusive use of manufacturer (not displayed on									
78		30079	For exclusive use of manufacturer (not displayed on									
79		30080	For exclusive use of manufacturer (not displayed on									
80		30081	For exclusive use of manufacturer (not displayed on									
81		30082	For exclusive use of manufacturer (not displayed on									
82		30083	For exclusive use of manufacturer (not displayed on									
83		30084	For exclusive use of manufacturer (not displayed on									
84		30085	For exclusive use of manufacturer (not displayed on									
85		30086	For exclusive use of manufacturer (not displayed on									
86		30087	For exclusive use of manufacturer (not displayed on									
87		30088	For exclusive use of manufacturer (not displayed on									
88		30089	Get measured value 29 (H): Active power +P	x	x	0	9999	MW	1			Analog Input
89		30090	Get measured value 29 (L): Active power +P									
90		30091	Get measured value 30 (H): Active power -P	x	x	0	9999	MW	1			Analog Input
91		30092	Get measured value 30 (L): Active power -P									
92		30093	Get measured value 31 (H): Reactive power +Q	x	x	0	9999	MVar	1			Analog Input
93		30094	Get measured value 31 (L): Reactive power +Q									
94		30095	Get measured value 32 (H): Reactive power -Q	x	x	0	9999	MVar	1			Analog Input
95		30096	Get measured value 32 (L): Reactive power -Q									
96		30097	Get measured value 31 (H): Apparent power	x	x	0	9999	MVA	1			Analog Input
97		30098	Get measured value 31 (L): Apparent power									
98		30099	Get measured value 32 (H): Power factor	x	x	-100	100	No Unit	2			Analog Input
99		30100	Get measured value 32 (L): Power factor									
100		30101	Get measured value 33 (H): Frequency	x	x	450	650	Hz	1			Analog Input
101		30102	Get measured value 33 (L): Frequency									
102		30103	Get measured value 34 (H): Active power amount (incoming direction)	x	x	0	999999999	kWh	0			Analog Input
103		30104	Get measured value 34 (L): Active power amount (incoming direction)									
104		30105	Get measured value 35 (H): Active power amount (outgoing direction)	x	x	0	999999999	kWh	0			Analog Input
105		30106	Get measured value 35 (L): Active power amount (outgoing direction)									
106		30107	Get measured value 36 (H): Reactive power amount (incoming direction)	x	x	0	999999999	kVarh	0			Analog Input
107		30108	Get measured value 36 (L): Reactive power amount (incoming direction)									
108		30109	Get measured value 37 (H): Reactive power amount (outgoing direction)	x	x	0	999999999	kVarh	0			Analog Input
109		30110	Get measured value 37 (L): Reactive power amount (outgoing direction)									
110		30111	(Reserved)									
111		30112	(Reserved)									
112		30113	(Reserved)									
113		30114	(Reserved)									
114		30115	(Reserved)									
115	30116	(Reserved)										

Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Scale	Signal Type	Remarks
116	4	30117	(Reserved)								
117		30118									
118		30119									
119		30120									
149	4	30150	Number of acquired event records	x	x	0	256	No Unit		Analog Input	With an "Event record" request from the master station as Function Code: 4, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 30150+i • Number of access points = j • i+j<=2049 (i=0 to 2048, j=1 to 125)  → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.  "0" will be stored for the data portion with no event record. (Example: If "Number of acquired event records" is "1", trip data #2 through #256 will be "0")  The internal data will be erased with "Start erase event records operation".  (Note 2)
150		30151	Event record #001: Event item number	x	x	1	256	No Unit		Analog Input	
151		30152	Event record #001: Event status	x	x	0	1	No Unit		Analog Input	
152		30153	Event record #001: Time of occurrence (BCD time year/month/day (H))	x	x	0x1970	0x2069	No Unit		Analog Input	
153		30154	Event record #001: Time of occurrence (BCD time year/month/day (L))	x	x	0x0101	0x1231	No Unit		Analog Input	
154		30155	Event record #001: Time of occurrence (BCD time hour/minute/second (H))	x	x	0x0000	0x2359	No Unit		Analog Input	
155		30156	Event record #001: Time of occurrence (BCD time hour/minute/second (L))	x	x	0x0000	0x5900	No Unit		Analog Input	
156		30157	Event record #001: Time of occurrence (BCD time milliseconds)	x	x	0x0000	0x0999	No Unit		Analog Input	
157		30158	Event record #001: Time type	x	x	1	4	No Unit		Analog Input	
158		30159	Event record #002								
159		30160									
160		30161									
161		30162									
162		30163									
163		30164									
164		30165									
165		30166									
166		30167	Event record #003								
167		30168									
168		30169									
169		30170									
170		30171									
171		30172									
172		30173									
173		30174									
2190	32191	Event record #256									
2191	32192										
2192	32193										
2193	32194										
2194	32195										
2195	32196										
2196	32197										
2197	32198										
2460	4	32461	Number of acquired monitoring errors	x	x	0	200	No Unit		Analog Input	When start address=32461 ("Number of items of acquired monitoring error data") is received as Function Code: 4, the slave will respond with (MODBUS send) the size of the data. (When (start address=32462 or greater) is received as Function Code: 4, the slave will respond with (MODBUS send) the size of the data.)  On MODBUS: • Start address = 32461+i • Number of access points = j • i+j<=2801 (i=0 to 2800, j=1 to 125)  "0" will be stored for the data portion with no monitoring error data. (Example: If "Number of items of acquired monitoring data" is "1", monitoring error #2 through #200 will be "0")  The internal data will be erased with "Start erase monitoring error data operation".  → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.
2461		32462	Monitoring error #001: Error code	x	x	Refer to the error code list		No Unit		Analog Input	
2462		32463	Monitoring error #001: Detailed error code	x	x			No Unit		Analog Input	
2463		32464	Monitoring error #001: Detailed error code	x	x			No Unit		Analog Input	
2464		32465	Monitoring error #001: Detailed error code	x	x			No Unit		Analog Input	
2465		32466	Monitoring error #001: Detailed error code	x	x			No Unit		Analog Input	
2466		32467	Monitoring error #001: Detailed error code	x	x			No Unit		Analog Input	
2467		32468	Monitoring error #001: Detailed error code	x	x			No Unit		Analog Input	
2468		32469	Monitoring error #001: Time of occurrence (BCD time year/month/day (H))	x	x	0x1970	0x2069	No Unit		Analog Input	
2469		32470	Monitoring error #001: Time of occurrence (BCD time year/month/day (L))	x	x	0x0101	0x1231	No Unit		Analog Input	
2470		32471	Monitoring error #001: Time of occurrence (BCD time hour/minute/second (H))	x	x	0x0000	0x2359	No Unit		Analog Input	
2471		32472	Monitoring error #001: Time of occurrence (BCD time hour/minute/second (L))	x	x	0x0000	0x5900	No Unit		Analog Input	
2472		32473	Monitoring error #001: Time of occurrence (BCD time milliseconds)	x	x	0x0000	0x0999	No Unit		Analog Input	
2473		32474	Monitoring error #001: Time type	x	x	1	4	No Unit		Analog Input	
2474		32475	Monitoring error #001: CPU ID	x	x	?	?	No Unit		Analog Input	
2475		32476	Monitoring error #002								
2476		32477									
2477		32478									
2478		32479									
2479		32480									
2480		32481									
2481		32482									
2482		32483									
2483		32484									
2484		32485									
2485		32486									
2486		32487									
2487		32488									
2488		32489									
2489		32490	Monitoring error #003								
2490		32491									
2491		32492									
2492	32493										
2493	32494										
2494	32495										
2495	32496										
2496	32497										
2497	32498										
2498	32499										
2499	32500										
2500	32501										
2501	32502										
2502	32503										
5247	35248	Monitoring error #200									
5248	35249										
5249	35250										
5250	35251										
5251	35252										
5252	35253										
5253	35254										
5254	35255										
5255	35256										
5256	35257										
5257	35258										
5258	35259										
5259	35260										
5260	35261										



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Scale	Signal Type	Remarks	
5470	4	35471	Number of acquired access records	x	x	0	128	No Unit		Analog Input	When (start address=35471 ("Number of items of acquired access record data")) is received as Function Code: 4, the slave will respond with (MODBUS send) the size of the data. (When (start address=35472 or greater) is received as Function Code: 4, the slave will respond with (MODBUS send) the size of the data.) On MODBUS: • Start address = 35471+i • Number of access points = j • i+j<=1025 (i=0 to 1024, j=1 to 125) "0" will be stored for the data portion with no monitoring error data. (Example: If "Number of items of acquired access record data" is "1", monitoring error #2 through #128 will be "0") → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS. (Note 3)	
5471		35472	Access record #001: Access item number	x	x	0	0x65535	No Unit		Analog Input		
5472		35473	Access record #001: Time of occurrence (BCD time year/month/day (H))	x	x	0x1970	0x2069	No Unit		Analog Input		
5473		35474	Access record #001: Time of occurrence (BCD time year/month/day (L))	x	x	0x0101	0x1231	No Unit		Analog Input		
5474		35475	Access record #001: Time of occurrence (BCD time hour/minute/second (H))	x	x	0x0000	0x2359	No Unit		Analog Input		
5475		35476	Access record #001: Time of occurrence (BCD time hour/minute/second (L))	x	x	0x0000	0x5900	No Unit		Analog Input		
5476		35477	Access record #001: Time of occurrence (BCD time milliseconds)	x	x	0x0000	0x0999	No Unit		Analog Input		
5477		35478	Access record #001: Time type	x	x	1	4	No Unit		Analog Input		
5478		35479	Access record #001: Access source	x	x	0	3	No Unit		Analog Input		
5479		35480	Access record #002									
5480		35481										
5481		35482										
5482		35483										
5483		35484										
5484		35485										
5485		35486										
5486		35487										
5487		35488	Access record #003									
5488		35489										
5489		35490										
5490		35491										
5491		35492										
5492		35493										
5493		35494										
5494		35495										
6487		36488	Access record #128									
6488		36489										
6489		36490										
6490	36491											
6491	36492											
6492	36493											
6493	36494											
6494	36495											
6630	4	36631	Number of acquired accident records	x	x	0	5	No Unit		Analog Input	When (start address=36631 ("Number of acquired accident records")) is received as Function Code: 4, the slave will respond with (MODBUS send) the size of the records. (When (start address=36632 or greater) is received as Function Code: 4, the slave will respond with (MODBUS send) the size of the data.) On MODBUS: • Start address = 36631+i • Number of access points = j • i+j<=341 (i=0 to 340, j=1 to 125) "0" will be stored for the data portion with no accident record. (Example: If "Number of acquired accident records" is "1", monitoring error #2 through #5 will be "0") → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS. If the residual type, zero phase current (combination) will be allocated to measured value 15, and measured values 15 to 27 listed to the left will be allocated to measured values 16 to 28. * The displayed value depending on the zero-sequence current type	
6631		36632	Accident record #1: Time of occurrence (BCD time year/month/day (H))	x	x	0x1970	0x2069	No Unit		Analog Input		
6632		36633	Accident record #1: Time of occurrence (BCD time year/month/day (L))	x	x	0x0101	0x1231	No Unit		Analog Input		
6633		36634	Accident record #1: Time of occurrence (BCD time hour/minute/second (H))	x	x	0x0000	0x2359	No Unit		Analog Input		
6634		36635	Accident record #1: Time of occurrence (BCD time hour/minute/second (L))	x	x	0x0000	0x5900	No Unit		Analog Input		
6635		36636	Accident record #1: Time of occurrence (BCD time milliseconds)	x	x	0x0000	0x0999	No Unit		Analog Input		
6636		36637	Accident record #1: Time type	x	x	1	4	No Unit		Analog Input		
6637		36638	Accident record #1: Trip cause (H)	x	x	Accident record cause index bit information (Note 4)		No Unit		Analog Input		
6638		36639	Accident record #1: Trip cause (L)	x	x	Accident record cause index bit information (Note 4)		No Unit		Analog Input		
6639		36640	Accident record #1: Measured value 1 (H): Phase A voltage	x	x	0	1500	V	1	Analog Input		
6640		36641	Accident record #1: Measured value 1 (L): Phase A voltage	x	x	0	1500	V	1	Analog Input		
6641		36642	Accident record #1: Measured value 2 (H): Phase B voltage	x	x	0	1500	V	1	Analog Input		
6642		36643	Accident record #1: Measured value 2 (L): Phase B voltage	x	x	0	1500	V	1	Analog Input		
6643		36644	Accident record #1: Measured value 3 (H): Phase C voltage	x	x	0	1500	V	1	Analog Input		
6644		36645	Accident record #1: Measured value 3 (L): Phase C voltage	x	x	0	1500	V	1	Analog Input		
6645		36646	Accident record #1: Measured value 4 (H): Phase AB voltage	x	x	0	2600	V	1	Analog Input		
6646		36647	Accident record #1: Measured value 4 (L): Phase AB voltage	x	x	0	2600	V	1	Analog Input		
6647		36648	Accident record #1: Measured value 5 (H): Phase BC voltage	x	x	0	2600	V	1	Analog Input		
6648		36649	Accident record #1: Measured value 5 (L): Phase BC voltage	x	x	0	2600	V	1	Analog Input		
6649		36650	Accident record #1: Measured value 6 (H): Phase CA voltage	x	x	0	2600	V	1	Analog Input		
6650		36651	Accident record #1: Measured value 6 (L): Phase CA voltage	x	x	0	2600	V	1	Analog Input		
6651		36652	Accident record #1: Measured value 7 (H): Zero phase voltage	x	x	0	2470	V	1	Analog Input		
6652		36653	Accident record #1: Measured value 7 (L): Zero phase voltage	x	x	0	2470	V	1	Analog Input		
6653		36654	Accident record #1: Measured value 8 (H): Zero phase voltage (combination)	x	x	0	2470	V	1	Analog Input		
6654		36655	Accident record #1: Measured value 8 (L): Zero phase voltage (combination)	x	x	0	2470	V	1	Analog Input		
6655		36656	Accident record #1: Measured value 9 (H): Positive phase voltage	x	x	0	1500	V	1	Analog Input		
6656		36657	Accident record #1: Measured value 9 (L): Positive phase voltage	x	x	0	1500	V	1	Analog Input		
6657		36658	Accident record #1: Measured value 10 (H): Negative phase voltage	x	x	0	1500	V	1	Analog Input		
6658		36659	Accident record #1: Measured value 10 (L): Negative phase voltage	x	x	0	1500	V	1	Analog Input		
6659		36660	Accident record #1: Measured value 11 (H): Phase A current	x	x	0	1000	A	2	Analog Input		
6660		36661	Accident record #1: Measured value 11 (L): Phase A current	x	x	0	1000	A	2	Analog Input		
6661		36662	Accident record #1: Measured value 12 (H): Phase B current	x	x	0	1000	A	2	Analog Input		
6662		36663	Accident record #1: Measured value 12 (L): Phase B current	x	x	0	1000	A	2	Analog Input		
6663		36664	Accident record #1: Measured value 13 (H): Phase C current	x	x	0	1000	A	2	Analog Input		
6664		36665	Accident record #1: Measured value 13 (L): Phase C current	x	x	0	1000	A	2	Analog Input		
6665		36666	Accident record #1: Measured value 14 (H): Zero phase current *	x	x	0	9999 *1 1000 *2	mA *1 A *2	1 *1 2 *2	Analog Input		
6666		36667	Accident record #1: Measured value 14 (L): Zero phase current *	x	x	0	9999 *1 1000 *2	mA *1 A *2	1 *1 2 *2	Analog Input		
6667		36668	Accident record #1: Measured value 15 (H): Positive phase current	x	x	0	1000	A	2	Analog Input		
6668		36669	Accident record #1: Measured value 15 (L): Positive phase current	x	x	0	1000	A	2	Analog Input		
6669		36670	Accident record #1: Measured value 16 (H): Negative phase current	x	x	0	1000	A	2	Analog Input		
6670		36671	Accident record #1: Measured value 16 (L): Negative phase current	x	x	0	1000	A	2	Analog Input		
6671		36672	Accident record #1: Measured value 17 (H): Phase A voltage phase	x	x	0	3599	°LAG	1	Analog Input		
6672		36673	Accident record #1: Measured value 17 (L): Phase A voltage phase	x	x	0	3599	°LAG	1	Analog Input		
6673		36674	Accident record #1: Measured value 18 (H): Phase B voltage phase	x	x	0	3599	°LAG	1	Analog Input		
6674		36675	Accident record #1: Measured value 18 (L): Phase B voltage phase	x	x	0	3599	°LAG	1	Analog Input		



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Scale	Signal Type	Remarks
6675	4	36676	Accident record #1: Measured value 19 (H): Phase C voltage phase	x	x	0	3599	°LAG	1	Analog Input	
6676		36677	Accident record #1: Measured value 19 (L): Phase C voltage phase								
6677		36678	Accident record #1: Measured value 20 (H): Phase AB voltage phase	x	x	0	3599	°LAG	1	Analog Input	
6678		36679	Accident record #1: Measured value 20 (L): Phase AB voltage phase								
6679		36680	Accident record #1: Measured value 21 (H): Phase BC voltage phase	x	x	0	3599	°LAG	1	Analog Input	
6680		36681	Accident record #1: Measured value 21 (L): Phase BC voltage phase								
6681		36682	Accident record #1: Measured value 22 (H): Phase CA voltage phase	x	x	0	3599	°LAG	1	Analog Input	
6682		36683	Accident record #1: Measured value 22 (L): Phase CA voltage phase								
6683		36684	Accident record #1: Measured value 23 (H): Zero phase voltage phase	x	x	0	3599	°LAG	1	Analog Input	
6684		36685	Accident record #1: Measured value 23 (L): Zero phase voltage phase								
6685		36686	Accident record #1: Measured value 24 (H): Phase A current phase	x	x	0	3599	°LAG	1	Analog Input	
6686		36687	Accident record #1: Measured value 24 (L): Phase A current phase								
6687		36688	Accident record #1: Measured value 25 (H): Phase B current phase	x	x	0	3599	°LAG	1	Analog Input	
6688		36689	Accident record #1: Measured value 25 (L): Phase B current phase								
6689		36690	Accident record #1: Measured value 26 (H): Phase C current phase	x	x	0	3599	°LAG	1	Analog Input	
6690		36691	Accident record #1: Measured value 26 (L): Phase C current phase								
6691		36692	Accident record #1: Measured value 27 (H): Zero phase current phase	x	x	0	3599	°LAG	1	Analog Input	
6692		36693	Accident record #1: Measured value 27 (L): Zero phase current phase								
6693			36694	(Reserved)	x	x					
6694			36695	(Reserved)							
6695		36696	(Reserved)	x	x						
6696		36697	(Reserved)								
6697		36698	(Reserved)	x	x						
6698		36699	(Reserved)								
6903		36904	Accident record #5								
6904		36905									
6905		36906									
6906		36907									
6907		36908									
6908		36909									
6909		36910									
6910		36911									
6911		36912									
6912		36913									
6913		36914									
6914		36915									
6915		36916									
6916		36917									
6917		36918									
6918		36919									
6919		36920									
6920		36921									
6921		36922									
6922		36923									
6923		36924									
6924		36925									
6925		36926									
6926		36927									
6927		36928									
6928		36929									
6929		36930									
6930		36931									
6931		36932									
6932		36933									
6933		36934									
6934		36935									
6935		36936									
6936		36937									
6937		36938									
6938		36939									
6939		36940									
6940		36941									
6941		36942									
6942		36943									
6943		36944									
6944		36945									
6945		36946									
6946		36947									
6947		36948									
6948		36949									
6949		36950									
6950		36951									
6951		36952									
6952		36953									
6953		36954									
6954		36955									
6955		36956									
6956		36957									
6957		36958									
6958		36959									
6959		36960									
6960		36961									
6961		36962									
6962		36963									
6963		36964									
6964		36965									
6965		36966									
6966		36967									
6967		36968									
6968		36969									
6969		36970									
6970		36971									

Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Scale	Signal Type	Remarks	
7130	4	37131	Number of acquired items in trip data list	x	x	0	5	No Unit		Analog Input	When (start address=37131 ("Number of acquired items in trip data list")) is received as Function Code: 4, the slave will respond with (MODBUS send) the size of the data.  If an error (a trip) has occurred when "Get trip data list" is requested, the slave will respond with 07: NEGATIVE ACKNOWLEDGE.  When (start address=37132 or greater) is received as Function Code: 4, the slave will respond with (MODBUS send) the size of the data.  "0" will be stored for the data portion with no trip data. (Example: If "Number of acquired items in trip data list" is "1", trip data #2 through #5 will be "0")  The internal data will be erased with "Start erase accident records operation".  On MODBUS: • Start address = 37132+i • Number of access points = j • i+j<=55 (i=0 to 54, j=1 to 55)  When an error occurs, the slave will respond with 02: ILLEGAL DATA ADDRESS.)	
7131		37132	Trip data #1: Phenomenon number (H)	x	x	0x00000000	0x3B9ACA0	No Unit		Analog Input		
7132		37133	Trip data #1: Phenomenon number (L)	x	x		0	No Unit		Analog Input		
7133		37134	Trip data #1: Storage block number	x	x	1	10	No Unit		Analog Input		
7134		37135	Trip data #1: Time of occurrence (BCD time year/month/day (H))	x	x	0x1970	0x2069	No Unit		Analog Input		
7135		37136	Trip data #1: Time of occurrence (BCD time year/month/day (L))	x	x	0x0101	0x1231	No Unit		Analog Input		
7136		37137	Trip data #1: Time of occurrence (BCD time hour/minute/second (H))	x	x	0x0000	0x2359	No Unit		Analog Input		
7137		37138	Trip data #1: Time of occurrence (BCD time hour/minute/second (L))	x	x	0x0000	0x5900	No Unit		Analog Input		
7138		37139	Trip data #1: Time of occurrence (BCD time	x	x	0x0000	0x0999	No Unit		Analog Input		
7139		37140	Trip data #1: Time type	x	x	1	4	No Unit		Analog Input		
7140		37141	Trip data #2: Phenomenon number (H)	x	x	0x00000000	0x3B9ACA0	No Unit		Analog Input		
7141		37142	Trip data #2: Phenomenon number (L)	x	x		0	No Unit		Analog Input		
7142		37143	Trip data #2: Storage block number	x	x	1	10	No Unit		Analog Input		
7143		37144	Trip data #2: Time of occurrence (BCD time year/month/day (H))	x	x	0x1970	0x2069	No Unit		Analog Input		
7144		37145	Trip data #2: Time of occurrence (BCD time year/month/day (L))	x	x	0x0101	0x1231	No Unit		Analog Input		
7145		37146	Trip data #2: Time of occurrence (BCD time hour/minute/second (H))	x	x	0x0000	0x2359	No Unit		Analog Input		
7146		37147	Trip data #2: Time of occurrence (BCD time hour/minute/second (L))	x	x	0x0000	0x5900	No Unit		Analog Input		
7147		37148	Trip data #2: Time of occurrence (BCD time	x	x	0x0000	0x0999	No Unit		Analog Input		
7148		37149	Trip data #2: Time type	x	x	1	4	No Unit		Analog Input		
7149		37150	Trip data #3: Phenomenon number (H)	x	x	0x00000000	0x3B9ACA0	No Unit		Analog Input		
7150		37151	Trip data #3: Phenomenon number (L)	x	x		0	No Unit		Analog Input		
7151		37152	Trip data #3: Storage block number	x	x	1	10	No Unit		Analog Input		
7152		37153	Trip data #3: Time of occurrence (BCD time year/month/day (H))	x	x	0x1970	0x2069	No Unit		Analog Input		
7153		37154	Trip data #3: Time of occurrence (BCD time year/month/day (L))	x	x	0x0101	0x1231	No Unit		Analog Input		
7154		37155	Trip data #3: Time of occurrence (BCD time hour/minute/second (H))	x	x	0x0000	0x2359	No Unit		Analog Input		
7155		37156	Trip data #3: Time of occurrence (BCD time hour/minute/second (L))	x	x	0x0000	0x5900	No Unit		Analog Input		
7156		37157	Trip data #3: Time of occurrence (BCD time	x	x	0x0000	0x0999	No Unit		Analog Input		
7157		37158	Trip data #3: Time type	x	x	1	4	No Unit		Analog Input		
7158		37159	Trip data #4: Phenomenon number (H)	x	x	0x00000000	0x3B9ACA0	No Unit		Analog Input		
7159		37160	Trip data #4: Phenomenon number (L)	x	x		0	No Unit		Analog Input		
7160		37161	Trip data #4: Storage block number	x	x	1	10	No Unit		Analog Input		
7161		37162	Trip data #4: Time of occurrence (BCD time year/month/day (H))	x	x	0x1970	0x2069	No Unit		Analog Input		
7162		37163	Trip data #4: Time of occurrence (BCD time year/month/day (L))	x	x	0x0101	0x1231	No Unit		Analog Input		
7163		37164	Trip data #4: Time of occurrence (BCD time hour/minute/second (H))	x	x	0x0000	0x2359	No Unit		Analog Input		
7164		37165	Trip data #4: Time of occurrence (BCD time hour/minute/second (L))	x	x	0x0000	0x5900	No Unit		Analog Input		
7165		37166	Trip data #4: Time of occurrence (BCD time	x	x	0x0000	0x0999	No Unit		Analog Input		
7166		37167	Trip data #4: Time type	x	x	1	4	No Unit		Analog Input		
7167		37168	Trip data #5: Phenomenon number (H)	x	x	0x00000000	0x3B9ACA0	No Unit		Analog Input		
7168		37169	Trip data #5: Phenomenon number (L)	x	x		0	No Unit		Analog Input		
7169		37170	Trip data #5: Storage block number	x	x	1	10	No Unit		Analog Input		
7170		37171	Trip data #5: Time of occurrence (BCD time year/month/day (H))	x	x	0x1970	0x2069	No Unit		Analog Input		
7171		37172	Trip data #5: Time of occurrence (BCD time year/month/day (L))	x	x	0x0101	0x1231	No Unit		Analog Input		
7172		37173	Trip data #5: Time of occurrence (BCD time hour/minute/second (H))	x	x	0x0000	0x2359	No Unit		Analog Input		
7173		37174	Trip data #5: Time of occurrence (BCD time hour/minute/second (L))	x	x	0x0000	0x5900	No Unit		Analog Input		
7174		37175	Trip data #5: Time of occurrence (BCD time	x	x	0x0000	0x0999	No Unit		Analog Input		
7175		37176	Trip data #5: Time type	x	x	1	4	No Unit		Analog Input		
7176		37177										
7177		37178										
7178		37179										
7179	37180											
7180	37181											
7181	37182											
7182	37183											
7183	37184											
7184	37185											
7185	37186											
7186	37187											
7187	37188											
7188	37189											
7189	37190											
7190	37191											
7191	37192											
7192	37193											
7193	37194											
7194	37195											
7195	37196											
7196	37197											
7197	37198											
7198	37199											
7199	37200											
7200	37201											
7201	37202											
7202	37203											
7203	37204											
7204	37205											
7205	37206											
7206	37207											
7207	37208											
7208	37209											
7209	37210											
7210	37211											
7211	37212											
7212	37213											
7213	37214											
7214	37215											
7215	37216											
7216	37217											
7217	37218											
7218	37219											
7219	37220											
7220	37221											
7221	37222											
7222	37223											
7223	37224											
7224	37225											
7225	37226											
7226	37227											
7227	37228											
7228	37229											
7229	37230											



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Scale	Signal Type	Remarks	
7230	4	37231	Get trip data (trip header/model-specific data) phenomenon number (H)	x	x	1	10^9	No Unit		Analog Input	This memory stores the results of the get trip data (trip header/model-specific data) request (a request as Function Code: 16 to Holding Register 44101 to 44103). This memory is entirely "0" if no get trip data (trip header/model-specific data) request has been made.  On MODBUS: • Start address = 37231+i • Number of access points = j • i+j<=63 (i=0 to 62, j=1 to 63)  → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.	
7231		37232	Get trip data (trip header/model-specific data) phenomenon number (L)	x	x			No Unit		Analog Input		
7232		37233	Get trip data (trip header/model-specific data) block	x	x	1	10	No Unit		Analog Input		
7233		37234	Same as above: CT secondary processing value 1 (phase A or AB voltage)	x	x	Fixed value		No Unit		Analog Input		
7234		37235	Same as above: CT secondary processing value 2 (phase B or BC voltage)	x	x	Fixed value		No Unit		Analog Input		
7235		37236	Same as above: CT secondary processing value 3 (phase C or CA voltage)	x	x	Fixed value		No Unit		Analog Input		
7236		37237	Same as above: CT secondary processing value 4 (zero phase voltage)	x	x	Fixed value		No Unit		Analog Input		
7237		37238	Same as above: CT secondary processing value 5 (phase A current)	x	x	Fixed value		No Unit		Analog Input		
7238		37239	Same as above: CT secondary processing value 6 (phase B current)	x	x	Fixed value		No Unit		Analog Input		
7239		37240	Same as above: CT secondary processing value 7 (phase C current)	x	x	Fixed value		No Unit		Analog Input		
7240		37241	Same as above: CT secondary processing value 8 (zero phase current)	x	x	Fixed value		No Unit		Analog Input		
7241		37242	(Reserved)									
7242		37243	(Reserved)									
7243		37244	(Reserved)									
7244		37245	(Reserved)									
7245		37246	(Reserved)									
7246		37247	(Reserved)									
7247		37248	(Reserved)									
7248		37249	(Reserved)									
7249	37250	(Reserved)										
7250	37251	(Reserved)										
7251	37252	(Reserved)										
7252	37253	(Reserved)										
7253	37254	(Reserved)										
7254	37255	(Reserved)										
7255	37256	(Reserved)										
7256	37257	(Reserved)										
7257	37258	(Reserved)										
7258	37259	(Reserved)										
7259	37260	(Reserved)										
7260	37261	(Reserved)										
7261	37262	(Reserved)										
7262	37263	(Reserved)										
7263	37264	(Reserved)										
7264	37265	(Reserved)										
7265	37266	(Reserved)										
7266	37267	(Reserved)										
7267	37268	(Reserved)										
7268	37269	(Reserved)										
7269	37270	(Reserved)										
7270	37271	(Reserved)										
7271	37272	(Reserved)										
7272	37273	(Reserved)										
7273	37274	(Reserved)										
7274	37275	(Reserved)										
7275	37276	(Reserved)										
7276	37277	(Reserved)										
7277	37278	(Reserved)										
7278	37279	(Reserved)										
7279	37280	(Reserved)										
7280	37281	(Reserved)										
7281	37282	(Reserved)										
7282	37283	(Reserved)										
7283	37284	(Reserved)										
7284	37285	(Reserved)										
7285	37286	(Reserved)										
7286	37287	(Reserved)										
7287	37288	(Reserved)										
7288	37289	(Reserved)										
7289	37290	Same as above: 30° analog data word count	x	x	0	56	No Unit			Analog Input		
7290	37291	Same as above: 30° flag data word count	x	x	0	56	No Unit			Analog Input		
7291	37292	Same as above: Number of items of history data (saved IT count)	x	x	0	14549	No Unit			Analog Input		
7292	37293	Same as above: AI sampling cycle	x	x	15	30	No Unit			Analog Input		
7293	4	37294	Get trip data (analog/digital data/model-specific data) phenomenon number (H)	x	x	1	10^9	No Unit		Analog Input	This memory stores the results of the get trip data (analog/digital data) request (a request as Function Code: 16 to Holding Register 44104 to 7). This memory is entirely "0" if no get trip data (analog/digital data) request has been made.  On MODBUS: • Start address = 37294+i • Number of access points = j • i+j<=60 (i=0 to 59, j=1 to 60)  → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.	
7294		37295	Get trip data (analog/digital data/model-specific data) phenomenon number (L)	x	x			No Unit		Analog Input		
7295		37296	Get trip data (analog/digital data) block number	x	x	1	10	No Unit		Analog Input		
7296		37297	Same as above: Record number	x	x	0	Saved IT count-1	No Unit		Analog Input		
7297		37298	Same as above: Analog data (Va/Vab)	x	x	-32767	32767	No Unit		Analog Input		
7298		37299	Same as above: Analog data (Vb/Vbc)	x	x	-32767	32767	No Unit		Analog Input		
7299		37300	Same as above: Analog data (Vc/Vca)	x	x	-32767	32767	No Unit		Analog Input		
7300		37301	Same as above: Analog data (Vn)	x	x	-32767	32767	No Unit		Analog Input		
7301		37302	Same as above: Analog data (Ia)	x	x	-32767	32767	No Unit		Analog Input		
7302		37303	Same as above: Analog data (Ib)	x	x	-32767	32767	No Unit		Analog Input		
7303		37304	Same as above: Analog data (Ic)	x	x	-32767	32767	No Unit		Analog Input		
7304		37305	Same as above: Analog data (In)	x	x	-32767	32767	No Unit		Analog Input		
7305		37306	Same as above: Digital data 1	x	x	Refer to (Note 5)		No Unit		Digital Input		
7306		37307	Same as above: Digital data 2	x	x			No Unit		Digital Input		
7307		37308	Same as above: Digital data 3	x	x			No Unit		Digital Input		
7308		37309	Same as above: Digital data 4	x	x			No Unit		Digital Input		
7309		37310	Same as above: Digital data 5	x	x			No Unit		Digital Input		
7310		37311	Same as above: Digital data 6	x	x			No Unit		Digital Input		
7311		37312	Same as above: Digital data 7	x	x			No Unit		Digital Input		
7312	37313	Same as above: Digital data 8	x	x	No Unit				Digital Input			
7313	37314	Same as above: Digital data 9	x	x	No Unit				Digital Input			
7314	37315	Same as above: Digital data 10	x	x	No Unit				Digital Input			
7315	37316	Same as above: Digital data 11	x	x	No Unit				Digital Input			
7316	37317	(Reserved)										
7317	37318	(Reserved)										
7318	37319	(Reserved)										
7319	37320	(Reserved)										
7320	37321	(Reserved)										
7321	37322	(Reserved)										
7322	37323	(Reserved)										
7323	37324	(Reserved)										
7324	37325	(Reserved)										
7325	37326	(Reserved)										
7326	37327	(Reserved)										
7327	37328	(Reserved)										
7328	37329	(Reserved)										
7329	37330	(Reserved)										
7330	37331	(Reserved)										
7331	37332	(Reserved)										
7332	37333	(Reserved)										
7333	37334	(Reserved)										
7334	37335	(Reserved)										
7335	37336	(Reserved)										
7336	37337	(Reserved)										
7337	37338	(Reserved)										
7338	37339	(Reserved)										
7339	37340	(Reserved)										
7340	37341	(Reserved)										
7341	37342	(Reserved)										
7342	37343	(Reserved)										



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Scale	Signal Type	Remarks	
7343	4	37344	(Reserved)									
7344		37345	(Reserved)									
7345		37346	(Reserved)									
7346		37347	(Reserved)									
7347		37348	(Reserved)									
7348		37349	(Reserved)									
7349		37350	(Reserved)									
7350		37351	(Reserved)									
7351		37352	(Reserved)									
7352		37353	(Reserved)									
7374	4	37375	Monitoring data 1 (trip counter (H))	x	x	0	10000	time(s)	0	Digital Input	With a "Monitoring data" request from the master station as Function Code: 4, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 37375+2*i • Number of access points = 2*j • i+j<=50 (i=0 to 49, j=1 to 50) → When an error occurs, the slave will respond with 02: ILLEGAL DATA ADDRESS.	
7375		37376	Monitoring data 2 (trip counter (L))	x	x					Digital Input		
7376		37377	Monitoring data 3 (trip counter ALARM (H))	x	x	1	10000	time(s)	0	Digital Input		
7377		37378	Monitoring data 4 (trip counter ALARM (L))	x	x					Digital Input		
7378		37379	(Reserved)									
7379		37380	(Reserved)									
7380		37381	(Reserved)									
7381		37382	(Reserved)									
7382		37383	(Reserved)									
7383		37384	(Reserved)									
7384		37385	(Reserved)									
7385		37386	(Reserved)									
7386		37387	(Reserved)									
7387		37388	(Reserved)									
7388		37389	(Reserved)									
7389		37390	(Reserved)									
7390		37391	(Reserved)									
7391		37392	(Reserved)									
7392		37393	(Reserved)									
7393		37394	(Reserved)									
7394		37395	(Reserved)									
7395		37396	(Reserved)									
7396		37397	(Reserved)									
7397		37398	(Reserved)									
7398		37399	(Reserved)									
7399		37400	(Reserved)									
7400		37401	(Reserved)									
7401		37402	(Reserved)									
7402		37403	(Reserved)									
7403		37404	(Reserved)									
7404		37405	(Reserved)									
7405		37406	(Reserved)									
7406		37407	(Reserved)									
7407		37408	(Reserved)									
7408		37409	(Reserved)									
7409		37410	(Reserved)									
7410		37411	(Reserved)									
7411		37412	(Reserved)									
7412		37413	(Reserved)									
7413		37414	(Reserved)									
7414		37415	(Reserved)									
7415		37416	(Reserved)									
7416		37417	(Reserved)									
7417		37418	(Reserved)									
7418		37419	(Reserved)									
7419		37420	(Reserved)									
7420		37421	(Reserved)									
7421		37422	(Reserved)									
7422		37423	(Reserved)									
7423	37424	(Reserved)										
7424	37425	(Reserved)										
7425	37426	(Reserved)										
7426	37427	(Reserved)										
7427	37428	(Reserved)										
7428	37429	(Reserved)										
7429	37430	(Reserved)										
7430	37431	(Reserved)										
7431	37432	(Reserved)										
7432	37433	(Reserved)										
7433	37434	(Reserved)										
7434	37435	(Reserved)										
7435	37436	(Reserved)										
7436	37437	(Reserved)										
7437	37438	(Reserved)										
7438	37439	(Reserved)										
7439	37440	(Reserved)										
7440	37441	(Reserved)										
7441	37442	(Reserved)										
7442	37443	(Reserved)										
7443	37444	(Reserved)										
7444	37445	(Reserved)										
7445	37446	(Reserved)										
7446	37447	(Reserved)										
7447	37448	(Reserved)										
7448	37449	(Reserved)										
7449	37450	(Reserved)										
7450	37451	(Reserved)										
7451	37452	(Reserved)										
7452	37453	(Reserved)										
7453	37454	(Reserved)										
7454	37455	(Reserved)										
7455	37456	(Reserved)										
7456	37457	(Reserved)										
7457	37458	(Reserved)										
7458	37459	(Reserved)										
7459	37460	(Reserved)										
7460	37461	(Reserved)										
7461	37462	(Reserved)										
7462	37463	(Reserved)										
7463	37464	(Reserved)										
7464	37465	(Reserved)										
7465	37466	(Reserved)										
7466	37467	(Reserved)										
7467	37468	(Reserved)										
7468	37469	(Reserved)										
7469	37470	(Reserved)										
7470	37471	(Reserved)										
7471	37472	(Reserved)										
7472	37473	(Reserved)										
7473	37474	(Reserved)										

Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.)	Range (Max.)	Engineering Unit	Scale	Signal Type	Remarks
9800	4	39801	Check LED reset	x	x			No Unit		Digital Input	• Start address = 39801 • Number of access points = 1 (Note 1)
9801		39802	Check event record erasure	x	x			No Unit		Digital Input	• Start address = 39802 • Number of access points = 1 (Note 1)
9802		39803	Check monitoring error erasure	x	x			No Unit		Digital Input	• Start address = 39803 • Number of access points = 1 (Note 1)
9803		39804	Check access record erasure	x	x			No Unit		Digital Input	• Start address = 39804 • Number of access points = 1 (Note 1)
9804		39805	Check accident record erasure	x	x			No Unit		Digital Input	• Start address = 39805 • Number of access points = 1 (Note 1)
9805		39806	Check active group writing	x	x			No Unit		Digital Input	• Start address = 39806 • Number of access points = 1 (Note 1)
9806		39807	Check group 1 setting value data writing	x	x			No Unit		Digital Input	• Start address = 39807 • Number of access points = 1 (Note 1)
9807		39808	Check group 2 setting value data writing	x	x			No Unit		Digital Input	• Start address = 39808 • Number of access points = 1 (Note 1)
9808		39809	Check common setting value data writing	x	x			No Unit		Digital Input	• Start address = 39809 • Number of access points = 1 (Note 1)
9809		39810	Check get event record request	x	x			No Unit		Digital Input	• Start address = 39810 • Number of access points = 1 (Note 1)
9810		39811	Check get monitoring error record request	x	x			No Unit		Digital Input	• Start address = 39811 • Number of access points = 1 (Note 1)
9811		39812	Check get access record request	x	x			No Unit		Digital Input	• Start address = 39812 • Number of access points = 1 (Note 1)
9812		39813	Check get accident record request	x	x			No Unit		Digital Input	• Start address = 39813 • Number of access points = 1 (Note 1)
9813		39814	Check CB status	x	x			No Unit		Digital Input	• Start address = 39814 • Number of access points = 1 (Note 1)
9814		39815	Check open interlock status	x	x			No Unit		Digital Input	• Start address = 39815 • Number of access points = 1 (Note 1)
9815		39816	Check CB open control availability conditions	x	x			No Unit		Digital Input	• Start address = 39816 • Number of access points = 1 (Note 1)
9816		39817	Check close interlock status	x	x			No Unit		Digital Input	• Start address = 39817 • Number of access points = 1 (Note 1)
9817		39818	Check CB close control availability conditions	x	x			No Unit		Digital Input	• Start address = 39818 • Number of access points = 1 (Note 1)
9818		39819	Check CB open control completion	x	x			No Unit		Digital Input	• Start address = 39819 • Number of access points = 1 (Note 1)
9819		39820	Check CB close control completion	x	x			No Unit		Digital Input	• Start address = 39820 • Number of access points = 1 (Note 1)
9820		39821	Check test mode	x	x			No Unit		Digital Input	• Start address = 39821 • Number of access points = 1 (Note 1)
9821		39822	Check test mode setter	x	x			No Unit		Digital Input	• Start address = 39822 • Number of access points = 1 (Note 1)

Response data list (Note 1)

Address	Data
39801	0: Not completed, 1: Normally completed, AAAA: Timeout, Other: Abnormal completion
39802	0: Not completed, 1: Normally completed, AAAA: Timeout, Other: Abnormal completion
39803	0: Not completed, 1: Normally completed, AAAA: Timeout, Other: Abnormal completion
39804	0: Not completed, 1: Normally completed, AAAA: Timeout, Other: Abnormal completion
39805	0: Not completed, 1: Normally completed, AAAA: Timeout, Other: Abnormal completion
39806	0: Not completed, 1: Normally completed, AAAA: Timeout, Other: Abnormal completion
39807	0: Not completed, 1: Normally completed, 10: Range step, AAAA: Timeout, Other: Abnormal completion
39808	0: Not completed, 1: Normally completed, 10: Range step, AAAA: Timeout, Other: Abnormal completion
39809	0: Not completed, 1: Normally completed, 11: Range step, AAAA: Timeout, Other: Abnormal completion
39810	0: Not completed, 1: Normally completed, AAAA: Timeout, Other: Abnormal completion
39811	0: Not completed, 1: Normally completed, AAAA: Timeout, Other: Abnormal completion
39812	0: Not completed, 1: Normally completed, AAAA: Timeout, Other: Abnormal completion
39813	0: Not completed, 1: Normally completed, AAAA: Timeout, Other: Abnormal completion
39814	0: Closed, 1: Opened
39815	0: Interlock disabled (controllable), 1: Interlock enabled (not controllable)
39816	0: Not controllable, 1: Controllable
39817	0: Interlock disabled (controllable), 1: Interlock enabled (not controllable)
39818	0: Not controllable, 1: Controllable
39819	0: Being controlled, 1: Control completed, 2: No control request, 3: Control failure (timeout), 4: Control failure (same direction control), 5: Control failure (interlock failure), 6: Control failure (no control rights), 7: Control failure (DI starting)
39820	0: Being controlled, 1: Control completed, 2: No control request, 3: Control failure (timeout), 4: Control failure (same direction control), 5: Control failure (interlock failure), 6: Control failure (no control rights), 7: Control failure (DI starting)
39821	0: Normal operation, 1: Test mode
39822	0: Normal operation, 1: Panel, 2: GRIFFIN, 3: MODBUS

(Note 2) Event record item numbers

Item number	Event status
1	OC1 phase A: Confirmation & forced relay control signal OR
2	OC1 phase B: Confirmation & forced relay control signal OR
3	OC1 phase C: Confirmation & forced relay control signal OR
4	OC1 three-phase OR: Confirmation & forced relay control signal OR
5	OC2 phase A: Confirmation & forced relay control signal OR
6	OC2 phase B: Confirmation & forced relay control signal OR
7	OC2 phase C: Confirmation & forced relay control signal OR
8	OC2 three-phase OR: Confirmation & forced relay control signal OR
9	OC2 zero phase: Confirmation & forced relay control signal OR
10	OC3 phase A: Confirmation & forced relay control signal OR
11	OC3 phase B: Confirmation & forced relay control signal OR
12	OC3 phase C: Confirmation & forced relay control signal OR
13	OC3 three-phase OR: Confirmation & forced relay control signal OR
14	OC3 zero phase: Confirmation & forced relay control signal OR
15	OC4 phase A: Confirmation & forced relay control signal OR
16	OC4 phase B: Confirmation & forced relay control signal OR
17	OC4 phase C: Confirmation & forced relay control signal OR
18	OC4 three-phase OR: Confirmation & forced relay control signal OR
19	OC4 zero phase: Confirmation & forced relay control signal OR
20	OCNEG1: Confirmation & forced relay control signal OR
21	OCNEG2: Confirmation & forced relay control signal OR
22	UC1 phase A: Confirmation & forced relay control signal OR
23	UC1 phase B: Confirmation & forced relay control signal OR
24	UC1 phase C: Confirmation & forced relay control signal OR
25	UC1 three-phase OR: Confirmation & forced relay control signal OR
26	UC2 phase A: Confirmation & forced relay control signal OR
27	UC2 phase B: Confirmation & forced relay control signal OR
28	UC2 phase C: Confirmation & forced relay control signal OR
29	UC2 three-phase OR: Confirmation & forced relay control signal OR
30	UC2 zero phase: Confirmation & forced relay control signal OR
31	CBF phase A: Confirmation & forced relay control signal OR
32	CBF phase B: Confirmation & forced relay control signal OR
33	CBF phase C: Confirmation & forced relay control signal OR
34	CBF three-phase OR: Confirmation & forced relay control signal OR
35	CBF zero phase: Confirmation & forced relay control signal OR
36	DIRG1: Confirmation & forced relay control signal OR
37	DIRG2: Confirmation & forced relay control signal OR
38	DIRG3: Confirmation & forced relay control signal OR
39	DIRG4: Confirmation & forced relay control signal OR
40	UV1 phase A: Confirmation & forced relay control signal OR
41	UV1 phase B: Confirmation & forced relay control signal OR
42	UV1 phase C: Confirmation & forced relay control signal OR
43	UV1 three-phase OR: Confirmation & forced relay control signal OR
44	UV2 phase A: Confirmation & forced relay control signal OR
45	UV2 phase B: Confirmation & forced relay control signal OR
46	UV2 phase C: Confirmation & forced relay control signal OR
47	UV2 three-phase OR: Confirmation & forced relay control signal OR
48	OV1 phase A: Confirmation & forced relay control signal OR
49	OV1 phase B: Confirmation & forced relay control signal OR
50	OV1 phase C: Confirmation & forced relay control signal OR
51	OV1 three-phase OR: Confirmation & forced relay control signal OR
52	OV2 phase A: Confirmation & forced relay control signal OR
53	OV2 phase B: Confirmation & forced relay control signal OR
54	OV2 phase C: Confirmation & forced relay control signal OR
55	OV2 three-phase OR: Confirmation & forced relay control signal OR
56	
57	
58	Reserved
59	Reserved
60	Trip counter ALARM
61	Reserved
62	Zero phase voltage monitor: Confirmation
63	Reserved
64	DO1 status
65	DO2 status
66	DO3 status
67	DO4 status
68	DO5 status
69	DO6 status
70	DO7 status
71	DO8 status
72	Reserved
73	Reserved
74	Reserved
75	Reserved
76	Reserved
77	DI1 status
78	DI2 status
79	DI3 status
80	DI4 status
81	DI5 status
82	DI6 status
83	DI7 status
84	DI8 status
85	Reserved
86	Reserved
87	Reserved
88	Reserved
89	Reserved
90	CB status
91	INTERLOCK signal (OPEN)
92	INTERLOCK signal (CLOSE)
93	CB open controllable
94	CB close controllable
95	CB control successful
96	CB control failed
97	CB OPEN control (local)
98	CB CLOSE control (local)
99	CB CLOSE command
100	CB OPEN command
101	Local/remote
102	Close control command
103	Open control command
104	Close-side interlock
105	Open-side interlock
106	CB control DI starting
107	Monitoring error (serious fault) confirmation
108	Monitoring error (minor fault) confirmation
109	Relay lock
110	UC phase A lock
111	UC phase B lock
112	UC phase C lock
113	UV phase A lock
114	UV phase B lock
115	UV phase C lock
116	OV phase A lock
117	OV phase B lock
118	OV phase C lock
119	
120	Detect 2f of either phase A, B, or C (OR detection)
121	
122	
123	
124	
125	
126	
127	
128	

Item number	Event status
129	OVG1: Confirmation & forced relay control signal OR
130	OVG2: Confirmation & forced relay control signal OR
131	OVNEG1: Confirmation & forced relay control signal OR
132	OVNEG2: Confirmation & forced relay control signal OR
133	UF1: Confirmation & forced relay control signal OR
134	UF2: Confirmation & forced relay control signal OR
135	UF3: Confirmation & forced relay control signal OR
136	OF1: Confirmation & forced relay control signal OR
137	OF2: Confirmation & forced relay control signal OR
138	OF3: Confirmation & forced relay control signal OR
139	
140	
141	
142	
143	
144	Open operation prohibited setting status
145	Close operation prohibited setting status
146	Interlock used/not used setting status
147	Improper selection
148	Control successful
149	No control rights/operation prohibited
150	Same directional control
151	Interlock conditions not satisfied
152	Timeout
153	Overcurrent instantaneous (50) element: Stage 1: Zero phase detection
154	Overcurrent instantaneous (50) element: Stage 2: Zero phase detection
155	Overcurrent instantaneous (50) element: Stage 3: Zero phase detection
156	Overcurrent time limit (51) element: Zero phase detection
157	Negative phase overcurrent (46) element: Stage 1 detection
158	Negative phase overcurrent (46) element: Stage 2 detection
159	Overcurrent (50BF) element for CBF detection: G phase detection
160	Ground directional instantaneous (67G) element: Stage 1 detection
161	Ground directional instantaneous (67G) element: Stage 2 detection
162	Ground directional instantaneous (67G) element: Stage 3 detection
163	Ground directional time limit (67G) element: Detection
164	Ground overvoltage (64N) element: Stage 1 detection
165	Ground overvoltage (64N) element: Stage 2 detection
166	Negative phase overvoltage (47) element: Stage 1 detection
167	Negative phase overvoltage (47) element: Stage 2 detection
168	Frequency decrease detection (81UF) element: Stage 1 detection
169	Frequency decrease detection (81UF) element: Stage 2 detection
170	Frequency decrease detection (81UF) element: Stage 3 detection
171	Frequency increase detection (81OF) element: Stage 1 detection
172	Frequency increase detection (81OF) element: Stage 2 detection
173	Frequency increase detection (81OF) element: Stage 3 detection
174	Communication
175	Communication
176	Communication
177	Communication
178	Communication
179	Communication
180	Communication
181	Communication
182	Detect either OC1 phase A, B, or C (OR detection)
183	Detect either OC2 phase A, B, or C (OR detection)
184	Detect either OC3 phase A, B, or C (OR detection)
185	Detect either OC4 phase A, B, or C (OR detection)
186	Detect either UC1 phase A, B, or C (OR detection)
187	Detect either UC2 phase A, B, or C (OR detection)
188	Detect either CBF phase A, B, or C (OR detection)
189	Detect either UV1 phase A (AB), B (BC), or C (CA) (OR detection)
190	Detect either UV2 phase A (AB), B (BC), or C (CA) (OR detection)
191	Detect either OV1 phase A (AB), B (BC), or C (CA) (OR detection)
192	Detect either OV2 phase A (AB), B (BC), or C (CA) (OR detection)
193	
194	
195	
196	
197	
198	
199	
200	
201	
202	
203	
204	
205	All elements confirmation OR
206	GOOSE1
207	GOOSE2
208	GOOSE3
209	GOOSE4
210	GOOSE5
211	GOOSE6
212	GOOSE7
213	GOOSE8
214	GOOSE9
215	GOOSE10
216	GOOSE11
217	GOOSE12
218	GOOSE13
219	GOOSE14
220	GOOSE15
221	GOOSE16
222	GOOSE17
223	GOOSE18
224	GOOSE19
225	GOOSE20
226	GOOSE21
227	GOOSE22
228	GOOSE23
229	GOOSE24
230	GOOSE25
231	GOOSE26
232	GOOSE27
233	GOOSE28
234	GOOSE29
235	GOOSE30
236	GOOSE31
237	GOOSE32
238	GOOSE33
239	GOOSE34
240	GOOSE35
241	GOOSE36
242	GOOSE37
243	CBF/CBFG action conditions (trip signal for other relays)
244	CBF/CBFG action conditions (trip signal for other relays)
245	CBF/CBFG action conditions (trip signal for other relays)
246	Pulse signal from the start of saving data until it has completed (excluding the time before the accident)
247	
248	
249	
250	Monitoring lock
251	Trip counter lock
252	
253	
254	
255	
256	



**(Note 3) Access record access codes**

Access code	Access details
0001	When group was set
0003	When setting DI detection voltage
0004	When setting data save
0005	When setting password usage
0006	When setting the password
0007	When setting the destination USB connection
0008	When setting the VFD brightness
0009	When setting the trip counter
000A	When setting the motor operation time
000B	When configuring communications (Modbus)
000C	When configuring communications (CC-Link)
000D	When configuring communications (IEC-61850)
0010	When setting the device name
0011	When setting a measured value
0012	When setting the electrical energy
0013	When setting the time information
0014	When setting the control mode
0015	When setting forced DO control
0016	When configuring SNTP
001D	When configuring the PLC
001E	When setting relay setting values
0200	When erasing an accident record
0210	When erasing an error record
0220	When erasing an event record
0240	When setting the time
0300	When starting test settings
0310	When ending test settings
0320	When resetting the LEDs (LED recovery, ALARM recovery, operation)
0340	Starting forced control
0350	Canceling forced control
0360	Monitoring lock ON
0370	Monitoring lock OFF
0380	Starting forced relay control
0390	Canceling forced relay control
0520	When performing a CB open/close control operation

Access source codes	Source of operation
0001	Front panel
0002	PC-HMI
0003	Modbus
0004	IEC61850
0005	CC-Link
0006	Device-side auto clear

**(Note 4) Accident record cause index bit information**

Bit	Modbus address 36638 bit allocation details
0	Either OC1 phase A, B, or C is confirmed (OR confirmation)
1	Overcurrent instantaneous (50) element: Stage 1: Zero phase confirmation
2	Either OC2 phase A, B, or C is confirmed (OR confirmation)
3	Overcurrent instantaneous (50) element: Stage 2: Zero phase confirmation
4	Either OC3 phase A, B, or C is confirmed (OR confirmation)
5	Overcurrent instantaneous (50) element: Stage 3: Zero phase confirmation
6	Either OC4 phase A, B, or C is confirmed (OR confirmation)
7	Overcurrent time limit (51) element: Zero phase confirmation
8	Negative phase overcurrent (46) element: Stage 1 confirmation
9	Negative phase overcurrent (46) element: Stage 2 confirmation
10	Either UC1 phase A, B, or C is confirmed (OR confirmation)
11	Either UC2 phase A, B, or C is confirmed (OR confirmation)
12	Either OCBF phase A, B, or C is confirmed (OR confirmation)
13	Overcurrent (50BF) element for CBF detection: Zero phase confirmation
14	Ground directional instantaneous (67G) element: Stage 1 confirmation
15	Ground directional instantaneous (67G) element: Stage 2 confirmation

Bit	Modbus address 36639 bit allocation details
0	Ground directional instantaneous (67G) element: Stage 3 confirmation
1	Ground directional time limit (67G) element: Confirmation
2	Either UV1 phase A (AB), B (BC), or C (CA) is confirmed (OR confirmation)
3	Either UV2 phase A (AB), B (BC), or C (CA) is confirmed (OR confirmation)
4	Either OV1 phase A (AB), B (BC), or C (CA) is confirmed (OR confirmation)
5	Either OV2 phase A (AB), B (BC), or C (CA) is confirmed (OR confirmation)
6	Ground overvoltage (64G) element: Stage 1 confirmation
7	Ground overvoltage (64G) element: Stage 2 confirmation
8	Negative phase overvoltage (47) element: Stage 1 confirmation
9	Negative phase overvoltage (47) element: Stage 2 confirmation
10	Frequency decrease detection (81UF) element: Stage 1 confirmation
11	Frequency decrease detection (81UF) element: Stage 2 confirmation
12	Frequency decrease detection (81UF) element: Stage 3 confirmation
13	Frequency increase detection (81OF) element: Stage 1 confirmation
14	Frequency increase detection (81OF) element: Stage 2 confirmation
15	Frequency increase detection (81OF) element: Stage 3 confirmation

**(Note 5) Trip data (digital data 1 to 11)**

Bit	Modbus address 37306 bit allocation details
0	DO1 status
1	DO2 status
2	DO3 status
3	DO4 status
4	DO5 status
5	DO6 status
6	DO7 status
7	DO8 status
8	Reserved
9	Reserved
10	Reserved
11	Reserved
12	Reserved
13	-
14	-
15	-

Bit	Modbus address 37307 bit allocation details
0	DI1 status
1	DI2 status
2	DI3 status
3	DI4 status
4	DI5 status
5	DI6 status
6	DI7 status
7	DI8 status
8	Reserved
9	Reserved
10	Reserved
11	Reserved
12	Reserved
13	Reserved
14	Reserved
15	-

Bit	Modbus address 37308 bit allocation details
0	Overcurrent instantaneous (50) element: Stage 1: Phase A confirmation
1	Overcurrent instantaneous (50) element: Stage 1: Phase B confirmation
2	Overcurrent instantaneous (50) element: Stage 1: Phase C confirmation
3	Overcurrent instantaneous (50) element: Stage 1: Zero phase confirmation
4	Overcurrent instantaneous (50) element: Stage 2: Phase A confirmation
5	Overcurrent instantaneous (50) element: Stage 2: Phase B confirmation
6	Overcurrent instantaneous (50) element: Stage 2: Phase C confirmation
7	Overcurrent instantaneous (50) element: Stage 2: Zero phase confirmation
8	Overcurrent instantaneous (50) element: Stage 3: Phase A confirmation
9	Overcurrent instantaneous (50) element: Stage 3: Phase B confirmation
10	Overcurrent instantaneous (50) element: Stage 3: Phase C confirmation
11	Overcurrent instantaneous (50) element: Stage 3: Zero phase confirmation
12	Overcurrent time limit (51) element: Phase A confirmation
13	Overcurrent time limit (51) element: Phase B confirmation
14	Overcurrent time limit (51) element: Phase C confirmation
15	Overcurrent time limit (51) element: Zero phase confirmation

Bit	Modbus address 37309 bit allocation details
0	Negative phase overcurrent (46) element: Stage 1 confirmation
1	Negative phase overcurrent (46) element: Stage 2 confirmation
2	Undercurrent (37) element: Stage 1: Phase A confirmation
3	Undercurrent (37) element: Stage 1: Phase B confirmation
4	Undercurrent (37) element: Stage 1: Phase C confirmation
5	Undercurrent (37) element: Stage 2: Phase A confirmation
6	Undercurrent (37) element: Stage 2: Phase B confirmation
7	Undercurrent (37) element: Stage 2: Phase C confirmation
8	Overcurrent (50BF) element for CBF detection: Phase A confirmation
9	Overcurrent (50BF) element for CBF detection: Phase B confirmation
10	Overcurrent (50BF) element for CBF detection: Phase C confirmation
11	Overcurrent (50BF) element for CBF detection: Zero phase confirmation
12	Ground directional instantaneous (67G) element: Stage 1 confirmation
13	Ground directional instantaneous (67G) element: Stage 2 confirmation
14	Ground directional instantaneous (67G) element: Stage 3 confirmation
15	Ground directional time limit (67G) element: Confirmation

Bit	Modbus address 37310 bit allocation details
0	Undervoltage (27) element: Stage 1: Phase A (phase AB) confirmation
1	Undervoltage (27) element: Stage 1: Phase B (phase BC) confirmation
2	Undervoltage (27) element: Stage 1: Phase C (phase CA) confirmation
3	Undervoltage (27) element: Stage 2: Phase A (phase AB) confirmation
4	Undervoltage (27) element: Stage 2: Phase B (phase BC) confirmation
5	Undervoltage (27) element: Stage 2: Phase C (phase CA) confirmation
6	Overvoltage (59) element: Stage 1: Phase A (phase AB) confirmation
7	Overvoltage (59) element: Stage 1: Phase B (phase BC) confirmation
8	Overvoltage (59) element: Stage 1: Phase C (phase CA) confirmation
9	Overvoltage (59) element: Stage 2: Phase A (phase AB) confirmation
10	Overvoltage (59) element: Stage 2: Phase B (phase BC) confirmation
11	Overvoltage (59) element: Stage 2: Phase C (phase CA) confirmation
12	Ground overvoltage (64G) element: Stage 1 confirmation
13	Ground overvoltage (64G) element: Stage 2 confirmation
14	Negative phase overvoltage (47) element: Stage 1 confirmation
15	Negative phase overvoltage (47) element: Stage 2 confirmation

Bit	Modbus address 37311 bit allocation details
0	Frequency (81) element UV element for locking
1	Frequency decrease detection (81UF) element: Stage 1 confirmation
2	Frequency decrease detection (81UF) element: Stage 2 confirmation
3	Frequency decrease detection (81UF) element: Stage 3 confirmation
4	Frequency increase detection (81OF) element: Stage 1 confirmation
5	Frequency increase detection (81OF) element: Stage 2 confirmation
6	Frequency increase detection (81OF) element: Stage 3 confirmation
7	-
8	-
9	-
10	-
11	Trip counter ALARM
12	Reserved
13	Zero phase voltage monitor
14	Zero phase current monitor (available if residual type)
15	-

Bit	Modbus address 37312 bit allocation details
0	Overcurrent instantaneous (50) element: Stage 1: Phase A detection
1	Overcurrent instantaneous (50) element: Stage 1: Phase B detection
2	Overcurrent instantaneous (50) element: Stage 1: Phase C detection
3	Overcurrent instantaneous (50) element: Stage 1: Zero phase detection
4	Overcurrent instantaneous (50) element: Stage 2: Phase A detection
5	Overcurrent instantaneous (50) element: Stage 2: Phase B detection
6	Overcurrent instantaneous (50) element: Stage 2: Phase C detection
7	Overcurrent instantaneous (50) element: Stage 2: Zero phase detection
8	Overcurrent instantaneous (50) element: Stage 3: Phase A detection
9	Overcurrent instantaneous (50) element: Stage 3: Phase B detection
10	Overcurrent instantaneous (50) element: Stage 3: Phase C detection
11	Overcurrent instantaneous (50) element: Stage 3: Zero phase detection
12	Overcurrent time limit (51) element: Phase A detection
13	Overcurrent time limit (51) element: Phase B detection
14	Overcurrent time limit (51) element: Phase C detection
15	Overcurrent time limit (51) element: Zero phase detection

Bit	Modbus address 37313 bit allocation details
0	Negative phase overcurrent (46) element: Stage 1 detection
1	Negative phase overcurrent (46) element: Stage 2 detection
2	Undercurrent (37) element: Stage 1: Phase A detection
3	Undercurrent (37) element: Stage 1: Phase B detection
4	Undercurrent (37) element: Stage 1: Phase C detection
5	Undercurrent (37) element: Stage 2: Phase A detection
6	Undercurrent (37) element: Stage 2: Phase B detection
7	Undercurrent (37) element: Stage 2: Phase C detection
8	Overcurrent (50BF) element for CBF detection: Phase A detection
9	Overcurrent (50BF) element for CBF detection: Phase B detection
10	Overcurrent (50BF) element for CBF detection: Phase C detection
11	Overcurrent (50BF) element for CBF detection: G phase detection
12	Ground directional instantaneous (67G) element: Stage 1 detection
13	Ground directional instantaneous (67G) element: Stage 2 detection
14	Ground directional instantaneous (67G) element: Stage 3 detection
15	Ground directional time limit (67G) element: Detection

Bit	Modbus address 37314 bit allocation details
0	2f: Phase A detection
1	2f: Phase B detection
2	2f: Phase C detection
3	Undervoltage (27) element: Stage 1: Phase A (phase AB) detection
4	Undervoltage (27) element: Stage 1: Phase B (phase BC) detection
5	Undervoltage (27) element: Stage 1: Phase C (phase CA) detection
6	Undervoltage (27) element: Stage 2: Phase A (phase AB) detection
7	Undervoltage (27) element: Stage 2: Phase B (phase BC) detection
8	Undervoltage (27) element: Stage 2: Phase C (phase CA) detection
9	Overvoltage (59) element: Stage 1: Phase A (phase AB) detection
10	Overvoltage (59) element: Stage 1: Phase B (phase BC) detection
11	Overvoltage (59) element: Stage 1: Phase C (phase CA) detection
12	Overvoltage (59) element: Stage 2: Phase A (phase AB) detection
13	Overvoltage (59) element: Stage 2: Phase B (phase BC) detection
14	Overvoltage (59) element: Stage 2: Phase C (phase CA) detection
15	Ground overvoltage (64N) element: Stage 1 detection

Bit	Modbus address 37315 bit allocation details
0	Ground overvoltage (64N) element: Stage 2 detection
1	Negative phase overvoltage (47) element: Stage 1 detection
2	Negative phase overvoltage (47) element: Stage 2 detection
3	Frequency decrease detection (81UF) element: Stage 1 detection
4	Frequency decrease detection (81UF) element: Stage 2 detection
5	Frequency decrease detection (81UF) element: Stage 3 detection
6	Frequency increase detection (81OF) element: Stage 1 detection
7	Frequency increase detection (81OF) element: Stage 2 detection
8	Frequency increase detection (81OF) element: Stage 3 detection
9	-
10	-
11	-
12	-
13	-
14	-
15	-

Bit	Modbus address 37316 bit allocation details
0	Monitoring error (serious fault) confirmation
1	Monitoring error (minor fault) confirmation
2	-
3	-
4	-
5	-
6	-
7	-
8	-
9	-
10	-
11	-
12	-
13	-
14	-
15	-



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.) (Note 1)	Range (Max.) (Note 1)	Step	Engineering Unit	Scale (Note 2)	Signal Type	Remarks
0	16	3	40001 Group 1 set/get: 2f/1f content rate	x	x	10	30	1	%	0	Analog Value	With a "Setting value" request from the master station as Function Code: 3, the slave will respond with (MODBUS send) the response data. With a "Set setting value" request from the master station as Function Code: 16, the slave will respond with (MODBUS send) the response data.
1			40002 Group 1 set/get: 1f limiter	x	x	4	25	1	A	1	Analog Value	
2			40003 Group 1 set/get: OC1 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
3			40004 Group 1 set/get: OC1 operating current	x	x	5	1000	1	A	1	Analog Value	
4			40005 Group 1 set/get: OC1 operating time	x	x	0	1000	1	s	2	Analog Value	
5			40006 Group 1 set/get: OCG1 use/do not use	x	x	0	1	x	No Unit	0	Analog Value	
6			40007 Group 1 set/get: OCG1 operating current *	x	x	10 *1 1 *2	1000	5 *1 1 *2	mA *1 A *2	1	Analog Value	
7			40008 Group 1 set/get: OCG1 operating time	x	x	0	1000	1	s	2	Analog Value	
8			40009 Group 1 set/get: OC2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
9			40010 Group 1 set/get: OC2 operating current	x	x	5	1000	1	A	1	Analog Value	
10			40011 Group 1 set/get: OC2 operating time	x	x	0	1000	1	s	2	Analog Value	
11			40012 Group 1 set/get: OC2 OFF: Without F2 lock, ON: With F2 lock	x	x	0	1	x	No Unit	0	Analog Value	
12			40013 Group 1 set/get: OCG2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
13			40014 Group 1 set/get: OCG2 operating current *	x	x	10 *1 1 *2	1000	5 *1 1 *2	mA *1 A *2	1	Analog Value	
14			40015 Group 1 set/get: OCG2 operating time	x	x	0	1000	1	s	2	Analog Value	
15			40016 Group 1 set/get: OCG2 OFF: Without 2f lock, ON: With 2f lock	x	x	0	1	x	No Unit	0	Analog Value	
16			40017 Group 1 set/get: OC3 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
17			40018 Group 1 set/get: OC3 operating current	x	x	5	1000	1	A	1	Analog Value	
18			40019 Group 1 set/get: OC3 operating time	x	x	0	1000	1	s	2	Analog Value	
19			40020 Group 1 set/get: OC3 OFF: Without F2 lock, ON: With F2 lock	x	x	0	1	x	No Unit	0	Analog Value	
20			40021 Group 1 set/get: OCG3 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
21			40022 Group 1 set/get: OCG3 operating current *	x	x	10 *1 1 *2	1000	5 *1 1 *2	mA *1 A *2	1	Analog Value	
22			40023 Group 1 set/get: OCG3 operating time	x	x	0	1000	1	s	2	Analog Value	
23			40024 Group 1 set/get: OCG3 OFF: Without 2f lock, ON: With 2f lock	x	x	0	1	x	No Unit	0	Analog Value	
24			40025 Group 1 set/get: OC4 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
25			40026 Group 1 set/get: OC4 operating current	x	x	5	1000	1	A	1	Analog Value	
26			40027 Group 1 set/get: OC4 operating time scaling factor	x	x	25	5000	1	No Unit	2	Analog Value	
27			40028 Group 1 set/get: OC4 inverse time limit operating characteristic	x	x	0	13	x	No Unit	0	Analog Value	
28			40029 Group 1 set/get: OC4 inverse time limit counter recovery characteristic	x	x	0	2	x	No Unit	0	Analog Value	
29			40030 Group 1 set/get: OC4 OFF: Without 2f lock, ON: With 2f lock	x	x	0	1	x	No Unit	0	Analog Value	
30			40031 Group 1 set/get: OC4 OFF: Normal characteristics, ON: IEC	x	x	0	1	x	No Unit	0	Analog Value	
31			40032 Group 1 set/get: OCG4 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
32			40033 Group 1 set/get: OCG4 operating current *	x	x	10 *1 1 *2	1000	5 *1 1 *2	mA *1 A *2	1	Analog Value	
33			40034 Group 1 set/get: OCG4 operating time scaling factor	x	x	25	5000	1	No Unit	2	Analog Value	
34			40035 Group 1 set/get: OCG4 inverse time limit characteristic	x	x	0	13	x	No Unit	0	Analog Value	
35			40036 Group 1 set/get: OCG4 inverse time limit counter recovery characteristic	x	x	0	2	x	No Unit	0	Analog Value	
36			40037 Group 1 set/get: OCG4 OFF: Without 2f lock, ON: With 2f lock	x	x	0	1	x	No Unit	0	Analog Value	
37			40038 Group 1 set/get: OCG4 OFF: Normal characteristics, ON: IEC	x	x	0	1	x	No Unit	0	Analog Value	
38			40039 Group 1 set/get: OCNEG1 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
39			40040 Group 1 set/get: OCNEG1 operating current	x	x	25	500	1	A	2	Analog Value	
40			40041 Group 1 set/get: OCNEG1 operating time	x	x	0	100	1	s	1	Analog Value	
41			40042 Group 1 set/get: OCNEG2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
42			40043 Group 1 set/get: OCNEG2 operating current	x	x	25	500	1	A	2	Analog Value	
43			40044 Group 1 set/get: OCNEG2 operating time	x	x	0	100	1	s	1	Analog Value	
44			40045 Group 1 set/get: UC1 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
45			40046 Group 1 set/get: UC1 output three-phase OR/AND selection	x	x	0	1	x	No Unit	0	Analog Value	
46			40047 Group 1 set/get: UC1 UC detection method	x	x	0	1	x	No Unit	0	Analog Value	
47			40048 Group 1 set/get: UC1 operating current	x	x	25	500	1	A	2	Analog Value	
48			40049 Group 1 set/get: UC1 minimum current sensitivity	x	x	25	500	1	A	2	Analog Value	
49			40050 Group 1 set/get: UC1 operating time	x	x	0	1000	1	s	2	Analog Value	
50			40051 Group 1 set/get: UC2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
51			40052 Group 1 set/get: UC2 output three-phase OR/AND selection	x	x	0	1	x	No Unit	0	Analog Value	
52			40053 Group 1 set/get: UC2 UC detection method	x	x	0	1	x	No Unit	0	Analog Value	
53			40054 Group 1 set/get: UC2 operating current	x	x	25	500	1	A	2	Analog Value	
54			40055 Group 1 set/get: UC2 minimum current sensitivity	x	x	25	500	1	A	2	Analog Value	
55			40056 Group 1 set/get: UC2 operating time	x	x	0	1000	1	s	2	Analog Value	
56			40057 Group 1 set/get: CBF OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
57			40058 Group 1 set/get: CBF OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
58			40059 Group 1 set/get: CBF operating current	x	x	15	1000	1	A	2	Analog Value	
59			40060 Group 1 set/get: CBF operating current	x	x	10	1000	5	mA	1	Analog Value	
60			40061 Group 1 set/get: CBF operating time	x	x	0	1000	1	s	2	Analog Value	
61			40062 Group 1 set/get: DIRG maximum sensitivity angle	x	x	0	359	1	°LAG	0	Analog Value	
62			40063 Group 1 set/get: DIRG1 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
63			40064 Group 1 set/get: DIRG1 operating voltage	x	x	20	1000	1	V	1	Analog Value	
64			40065 Group 1 set/get: DIRG1 operating current *	x	x	10 *1 1 *2	1000	5 *1 1 *2	mA *1 A *2	1	Analog Value	
65			40066 Group 1 set/get: DIRG1 operating time	x	x	0	1000	1	s	2	Analog Value	
66			40067 Group 1 set/get: DIRG2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
67			40068 Group 1 set/get: DIRG2 operating voltage	x	x	20	1000	1	V	1	Analog Value	
68			40069 Group 1 set/get: DIRG2 operating current *	x	x	10 *1 1 *2	1000	5 *1 1 *2	mA *1 A *2	1	Analog Value	
69			40070 Group 1 set/get: DIRG2 operating time	x	x	0	1000	1	s	2	Analog Value	
70			40071 Group 1 set/get: DIRG2 OFF: Without 2f lock, ON: With 2f lock	x	x	0	1	x	No Unit	0	Analog Value	
71			40072 Group 1 set/get: DIRG3 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
72			40073 Group 1 set/get: DIRG3 operating voltage	x	x	20	1000	1	V	1	Analog Value	
73			40074 Group 1 set/get: DIRG3 operating current *	x	x	10 *1 1 *2	1000	5 *1 1 *2	mA *1 A *2	1	Analog Value	
74			40075 Group 1 set/get: DIRG3 operating time	x	x	0	1000	1	s	2	Analog Value	
75			40076 Group 1 set/get: DIRG3 OFF: Without 2f lock, ON: With 2f lock	x	x	0	1	x	No Unit	0	Analog Value	
76			40077 Group 1 set/get: DIRG4 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
77			40078 Group 1 set/get: DIRG4 operating voltage	x	x	20	1000	1	V	1	Analog Value	
78			40079 Group 1 set/get: DIRG4 operating current *	x	x	10 *1 1 *2	1000	5 *1 1 *2	mA *1 A *2	1	Analog Value	
79			40080 Group 1 set/get: DIRG4 operating time scaling factor	x	x	25	5000	1	No Unit	2	Analog Value	
80			40081 Group 1 set/get: DIRG4 inverse time limit characteristic	x	x	0	13	x	No Unit	0	Analog Value	
81			40082 Group 1 set/get: DIRG4 inverse time limit counter recovery characteristic	x	x	0	2	x	No Unit	0	Analog Value	
82			40083 Group 1 set/get: DIRG4 OFF: Without 2f lock, ON: With 2f lock	x	x	0	1	x	No Unit	0	Analog Value	
83			40084 Group 1 set/get: DIRG4 OFF: Normal characteristics, ON: IEC	x	x	0	1	x	No Unit	0	Analog Value	
84			40085 Group 1 set/get: UV1 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
85			40086 Group 1 set/get: UV1 USP (phase voltage)/UVS (line voltage) selection	x	x	0	1	x	No Unit	0	Analog Value	
86			40087 Group 1 set/get: UV1 output three-phase OR/AND selection	x	x	0	1	x	No Unit	0	Analog Value	
87			40088 Group 1 set/get: UV1 operating voltage	x	x	200	1200	1	V	1	Analog Value	
88			40089 Group 1 set/get: UV1 operating time	x	x	0	1000	1	s	2	Analog Value	
89			40090 Group 1 set/get: UV2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
90			40091 Group 1 set/get: UV2 USP (phase voltage)/UVS (line voltage) selection	x	x	0	1	x	No Unit	0	Analog Value	
91			40092 Group 1 set/get: UV2 output three-phase OR/AND selection	x	x	0	1	x	No Unit	0	Analog Value	
92			40093 Group 1 set/get: UV2 operating voltage	x	x	200	1200	1	V	1	Analog Value	
93			40094 Group 1 set/get: UV2 operating time	x	x	0	1000	1	s	2	Analog Value	
94			40095 Group 1 set/get: OV1 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
95			40096 Group 1 set/get: OV1 OVP (phase voltage)/OVS (line voltage) selection	x	x	0	1	x	No Unit	0	Analog Value	
96			40097 Group 1 set/get: OV1 operating voltage	x	x	200	2000	1	V	1	Analog Value	
97			40098 Group 1 set/get: OV1 operating time	x	x	0	1000	1	s	2	Analog Value	
98			40099 Group 1 set/get: OV2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
99			40100 Group 1 set/get: OV2 OVP (phase voltage)/OVS (line voltage) selection	x	x	0	1	x	No Unit	0	Analog Value	
100			40101 Group 1 set/get: OV2 operating voltage	x	x	200	2000	1	V	1	Analog Value	
101			40102 Group 1 set/get: OV2 operating time	x	x	0	1000	1	s	2	Analog Value	
102			40103 Group 1 set/get: OVG1 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
103			40104 Group 1 set/get: OVG1 operating voltage	x	x	20	1000	1	V	1	Analog Value	
104			40105 Group 1 set/get: OVG1 operating time	x	x	0	1000	1	s	2	Analog Value	
105			40106 Group 1 set/get: OVG2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
106			40107 Group 1 set/get: OVG2 operating voltage	x	x	20	1000	1	V	1	Analog Value	
107			40108 Group 1 set/get: OVG2 operating time	x	x	0	1000	1	s	2	Analog Value	
108			40109 Group 1 set/get: OVNEG1 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
109			40110 Group 1 set/get: OVNEG1 operating voltage	x	x	20	1000	1	V	1	Analog Value	
110			40111 Group 1 set/get: OVNEG1 operating time	x	x	0	100	1	s	1	Analog Value	
111			40112 Group 1 set/get: OVNEG2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
112			40113 Group 1 set/get: OVNEG2 operating voltage	x	x	20	1000	1	V	1	Analog Value	
113			40114 Group 1 set/get: OVNEG2 operating time	x	x	0	100	1	s	1	Analog Value	
114			40115 For exclusive use of manufacturer									
115			40116 Group 1 set/get: UF1 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
116			40117 Group 1 set/get: UF1 operating frequency (difference from rated)	x	x	-50	-5	1	Hz	1	Analog Value	
117			40118 Group 1 set/get: UF1 operating time	x	x	1	600	1	s	1	Analog Value	
118			40119 Group 1 set/get: UF2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
119			40120 Group 1 set/get: UF2 operating frequency (difference from rated)	x	x	-50	-5	1	Hz	1	Analog Value	
120			40121 Group 1 set/get: UF2 operating time	x	x	1	600	1	s	1	Analog Value	
121			40122 Group 1 set/get: UF3 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
122			40123 Group 1 set/get: UF3 operating frequency (difference from rated)	x	x	-50	-5	1	Hz	1	Analog Value	
123			40124 Group 1 set/get: UF3 operating time	x	x	1	600	1	s	1	Analog Value	
124			40125 Group 1 set/get: OF1 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
125			40126 Group 1 set/get: OF1 operating frequency (difference from rated)	x	x	5	50	1	Hz	1	Analog Value	
126			40127 Group 1 set/get: OF1 operating time	x	x	1	600	1	s	1	Analog Value	
127			40128 Group 1 set/get: OF2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
128			40129 Group 1 set/get: OF2 operating frequency (difference from rated)	x	x	5	50	1	Hz	1	Analog Value	
129	</											



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.) (Note 1)	Range (Max.) (Note 1)	Step	Engineering Unit	Scale (Note 2)	Signal Type	Remarks	
133		40134	For exclusive use of manufacturer										
134		40135	For exclusive use of manufacturer										
135		40136	Group 1 set/get: 3PB VT OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value		
136		40137	Group 1 set/get: 3PB VT zero phase voltage monitoring and detection	x	x	10	1000	1	s	1	Analog Value		
137		40138	For exclusive use of manufacturer										
138		40139	For exclusive use of manufacturer										
139		40140	Group 1 set/get: V0-SEL VG: Use VG terminal input	x	x	0	1	x	No Unit	0	Analog Value		
140		40141	For exclusive use of manufacturer										
141	16 3	40142	Group 1 set/get: VINPUT switch voltage reading (D: Line, Y: Phase)	x	x	0	1	x	No Unit	0	Analog Value	With a "Setting value" request from the master station as Function Code: 3, the slave will respond with (MODBUS send) the response data. With a "Set setting value" request from the master station as Function Code: 16, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 40001+1*i • Number of access points = 1*j • i+j<=256 (i=0 to 255, j=1 to 256)  → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.  For exclusive use of manufacturer: Items that are applicable to the VFD and not applicable to Modbus in the items list are fixed as 0 when read. They also cannot be written.	
142		40143	Group 1 set/get: V-SEL VT selection (3P: Three-phase, 2P: Two-phase (remaining phase is S/W combination))	x	x	0	1	x	No Unit	0	Analog Value		
143		40144	(Reserved)										
144		40145	(Reserved)										
145		40146	(Reserved)										
146		40147	(Reserved)										
147		40148	(Reserved)										
148		40149	(Reserved)										
149		40150	(Reserved)										
150		40151	(Reserved)										
151		40152	(Reserved)										
152		40153	(Reserved)										
153		40154	(Reserved)										
154		40155	(Reserved)										
155		40156	(Reserved)										
156		40157	(Reserved)										
157		40158	(Reserved)										
158		40159	(Reserved)										
159		40160	(Reserved)										
160		40161	(Reserved)										
161		40162	(Reserved)										
162		40163	(Reserved)										
163		40164	(Reserved)										
164		40165	(Reserved)										
165		40166	(Reserved)										
166		40167	(Reserved)										
167		40168	(Reserved)										
168		40169	(Reserved)										
169		40170	(Reserved)										
170		40171	(Reserved)										
171		40172	(Reserved)										
172		40173	(Reserved)										
173		40174	(Reserved)										
174		40175	(Reserved)										
175		40176	(Reserved)										
176		40177	(Reserved)										
177		40178	(Reserved)										
178		40179	(Reserved)										
179		40180	(Reserved)										
180		40181	(Reserved)										
181		40182	(Reserved)										
182		40183	(Reserved)										
183		40184	(Reserved)										
184		40185	(Reserved)										
185		40186	(Reserved)										
186		40187	(Reserved)										
187		40188	(Reserved)										
188		40189	(Reserved)										
189		40190	(Reserved)										
190		40191	(Reserved)										
191		40192	(Reserved)										
192		40193	(Reserved)										
193		40194	(Reserved)										
194		40195	(Reserved)										
195		40196	(Reserved)										
196		40197	(Reserved)										
197		40198	(Reserved)										
198		40199	(Reserved)										
199		40200	(Reserved)										
200		40201	(Reserved)										
201		40202	(Reserved)										
202		40203	(Reserved)										
203		40204	(Reserved)										
204		40205	(Reserved)										
205		40206	(Reserved)										
206		40207	(Reserved)										
207		40208	(Reserved)										
208		40209	(Reserved)										
209		40210	(Reserved)										
210		40211	(Reserved)										
211		40212	(Reserved)										
212		40213	(Reserved)										
213		40214	(Reserved)										
214		40215	(Reserved)										
215		40216	(Reserved)										
216		40217	(Reserved)										
217		40218	(Reserved)										
218		40219	(Reserved)										
219		40220	(Reserved)										
220		40221	(Reserved)										
221		40222	(Reserved)										
222		40223	(Reserved)										
223		40224	(Reserved)										
224		40225	(Reserved)										
225		40226	(Reserved)										
226		40227	(Reserved)										
227		40228	(Reserved)										
228		40229	(Reserved)										
229		40230	(Reserved)										
230		40231	(Reserved)										
231		40232	(Reserved)										
232		40233	(Reserved)										
233		40234	(Reserved)										
234		40235	(Reserved)										
235		40236	(Reserved)										
236		40237	(Reserved)										
237		40238	(Reserved)										
238		40239	(Reserved)										
239		40240	(Reserved)										
240		40241	(Reserved)										
241		40242	(Reserved)										
242		40243	(Reserved)										
243		40244	(Reserved)										
244		40245	(Reserved)										
245		40246	(Reserved)										
246		40247	(Reserved)										
247		40248	(Reserved)										
248		40249	(Reserved)										
249		40250	(Reserved)										
250		40251	(Reserved)										
251		40252	(Reserved)										
252		40253	(Reserved)										
253		40254	(Reserved)										
254		40255	(Reserved)										
255		40256	(Reserved)										



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.) (Note 1)	Range (Max.) (Note 1)	Step	Engineering Unit	Scale (Note 2)	Signal Type	Remarks
500	16 3	40501	Group 2 set/get: 2f/1f content rate	x	x	10	30	1	%	0	Analog Value	With a "Setting value" request from the master station as Function Code: 3, the slave will respond with (MODBUS send) the response data. With a "Set setting value" request from the master station as Function Code: 16, the slave will respond with (MODBUS send) the response data.
501		40502	Group 2 set/get: 1f limiter	x	x	4	25	1	A	1	Analog Value	
502		40503	Group 2 set/get: OC1 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
503		40504	Group 2 set/get: OC1 operating current	x	x	5	1000	1	A	1	Analog Value	
504		40505	Group 2 set/get: OC1 operating time	x	x	0	1000	1	s	2	Analog Value	
505		40506	Group 2 set/get: OCG1 use/do not use	x	x	0	1	x	No Unit	0	Analog Value	
506		40507	Group 2 set/get: OCG1 operating current *	x	x	10 *1 1 *2	1000	5 *1 1 *2	mA *1 A *2	1	Analog Value	
507		40508	Group 2 set/get: OCG1 operating time	x	x	0	1000	1	s	2	Analog Value	
508		40509	Group 2 set/get: OC2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
509		40510	Group 2 set/get: OC2 operating current	x	x	5	1000	1	A	1	Analog Value	
510		40511	Group 2 set/get: OC2 operating time	x	x	0	1000	1	s	2	Analog Value	
511		40512	Group 2 set/get: OC2 OFF: Without F2 lock, ON: With F2 lock	x	x	0	1	x	No Unit	0	Analog Value	
512		40513	Group 2 set/get: OCG2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
513		40514	Group 2 set/get: OCG2 operating current *	x	x	10 *1 1 *2	1000	5 *1 1 *2	mA *1 A *2	1	Analog Value	On MODBUS: * Start address = 40501+1*j * Number of access points = 1*j * i+j<=256 (i=0 to 255, j=1 to 256) → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.
514		40515	Group 2 set/get: OCG2 operating time	x	x	0	1000	1	s	2	Analog Value	
515		40516	Group 2 set/get: OCG2 OFF: Without 2f lock, ON: With 2f lock	x	x	0	1	x	No Unit	0	Analog Value	
516		40517	Group 2 set/get: OC3 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
517		40518	Group 2 set/get: OC3 operating current	x	x	5	1000	1	A	1	Analog Value	
518		40519	Group 2 set/get: OC3 operating time	x	x	0	1000	1	s	2	Analog Value	
519		40520	Group 2 set/get: OC3 OFF: Without F2 lock, ON: With F2 lock	x	x	0	1	x	No Unit	0	Analog Value	
520		40521	Group 2 set/get: OCG3 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
521		40522	Group 2 set/get: OCG3 operating current *	x	x	10 *1 1 *2	1000	5 *1 1 *2	mA *1 A *2	1	Analog Value	
522		40523	Group 2 set/get: OCG3 operating time	x	x	0	1000	1	s	2	Analog Value	
523		40524	Group 2 set/get: OCG3 OFF: Without 2f lock, ON: With 2f lock	x	x	0	1	x	No Unit	0	Analog Value	
524		40525	Group 2 set/get: OC4 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
525		40526	Group 2 set/get: OC4 operating current	x	x	5	1000	1	A	1	Analog Value	
526		40527	Group 2 set/get: OC4 operating time scaling factor	x	x	25	5000	1	No Unit	2	Analog Value	
527		40528	Group 2 set/get: OC4 inverse time limit operating characteristic	x	x	0	13	x	No Unit	0	Analog Value	
528		40529	Group 2 set/get: OC4 inverse time limit counter recovery characteristic	x	x	0	2	x	No Unit	0	Analog Value	
529		40530	Group 2 set/get: OC4 OFF: Without 2f lock, ON: With 2f lock	x	x	0	1	x	No Unit	0	Analog Value	
530		40531	Group 2 set/get: OC4 OFF: Normal characteristics, ON: IEC	x	x	0	1	x	No Unit	0	Analog Value	
531		40532	Group 2 set/get: OCG4 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
532		40533	Group 2 set/get: OCG4 operating current *	x	x	10 *1 1 *2	1000	5 *1 1 *2	mA *1 A *2	1	Analog Value	For exclusive use of manufacturer: Items that are applicable to the VFD and not applicable to Modbus in the items list are fixed as 0 when read. They also cannot be written.  * The setting value depending on the zero-sequence current type. *1: ZCT Type *2: 5A Type
533		40534	Group 2 set/get: OCG4 operating time scaling factor	x	x	25	5000	1	No Unit	2	Analog Value	
534		40535	Group 2 set/get: OCG4 inverse time limit characteristic	x	x	0	13	x	No Unit	0	Analog Value	
535		40536	Group 2 set/get: OCG4 inverse time limit counter recovery characteristic	x	x	0	2	x	No Unit	0	Analog Value	
536		40537	Group 2 set/get: OCG4 OFF: Without 2f lock, ON: With 2f lock	x	x	0	1	x	No Unit	0	Analog Value	
537		40538	Group 2 set/get: OCG4 OFF: Normal characteristics, ON: IEC	x	x	0	1	x	No Unit	0	Analog Value	
538		40539	Group 2 set/get: OCNEG1 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
539		40540	Group 2 set/get: OCNEG1 operating current	x	x	25	500	1	A	2	Analog Value	
540		40541	Group 2 set/get: OCNEG1 operating time	x	x	0	100	1	s	1	Analog Value	
541		40542	Group 2 set/get: OCNEG2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
542		40543	Group 2 set/get: OCNEG2 operating current	x	x	25	500	1	A	2	Analog Value	
543		40544	Group 2 set/get: OCNEG2 operating time	x	x	0	100	1	s	1	Analog Value	
544		40545	Group 2 set/get: UC1 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
545		40546	Group 2 set/get: UC1 output three-phase OR/AND selection	x	x	0	1	x	No Unit	0	Analog Value	
546		40547	Group 2 set/get: UC1 UC detection method	x	x	0	1	x	No Unit	0	Analog Value	
547		40548	Group 2 set/get: UC1 operating current	x	x	25	500	1	A	2	Analog Value	
548		40549	Group 2 set/get: UC1 minimum current sensitivity	x	x	25	500	1	A	2	Analog Value	
549		40550	Group 2 set/get: UC1 operating time	x	x	0	1000	1	s	2	Analog Value	
550		40551	Group 2 set/get: UC2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
551		40552	Group 2 set/get: UC2 output three-phase OR/AND selection	x	x	0	1	x	No Unit	0	Analog Value	
552		40553	Group 2 set/get: UC2 UC detection method	x	x	0	1	x	No Unit	0	Analog Value	
553		40554	Group 2 set/get: UC2 operating current	x	x	25	500	1	A	2	Analog Value	
554		40555	Group 2 set/get: UC2 minimum current sensitivity	x	x	25	500	1	A	2	Analog Value	
555		40556	Group 2 set/get: UC2 operating time	x	x	0	1000	1	s	2	Analog Value	
556		40557	Group 2 set/get: CBF OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
557		40558	Group 2 set/get: CBF OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
558		40559	Group 2 set/get: CBF operating current	x	x	15	1000	1	A	2	Analog Value	
559		40560	Group 2 set/get: CBF operating time	x	x	10	1000	5	mA	1	Analog Value	
560		40561	Group 2 set/get: CBF operating time	x	x	0	1000	1	s	2	Analog Value	
561		40562	Group 2 set/get: DIRG maximum sensitivity angle	x	x	0	359	1	°LAG	0	Analog Value	
562		40563	Group 2 set/get: DIRG1 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
563		40564	Group 2 set/get: DIRG1 operating voltage	x	x	20	1000	1	V	1	Analog Value	
564		40565	Group 2 set/get: DIRG1 operating current *	x	x	10 *1 1 *2	1000	5 *1 1 *2	mA *1 A *2	1	Analog Value	
565		40566	Group 2 set/get: DIRG1 operating time	x	x	0	1000	1	s	2	Analog Value	
566		40567	Group 2 set/get: DIRG2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
567		40568	Group 2 set/get: DIRG2 operating voltage	x	x	20	1000	1	V	1	Analog Value	
568		40569	Group 2 set/get: DIRG2 operating current *	x	x	10 *1 1 *2	1000	5 *1 1 *2	mA *1 A *2	1	Analog Value	
569		40570	Group 2 set/get: DIRG2 operating time	x	x	0	1000	1	s	2	Analog Value	
570		40571	Group 2 set/get: DIRG2 OFF: Without 2f lock, ON: With 2f lock	x	x	0	1	x	No Unit	0	Analog Value	
571		40572	Group 2 set/get: DIRG3 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
572		40573	Group 2 set/get: DIRG3 operating voltage	x	x	20	1000	1	V	1	Analog Value	
573		40574	Group 2 set/get: DIRG3 operating current *	x	x	10 *1 1 *2	1000	5 *1 1 *2	mA *1 A *2	1	Analog Value	
574		40575	Group 2 set/get: DIRG3 operating time	x	x	0	1000	1	s	2	Analog Value	
575		40576	Group 2 set/get: DIRG3 OFF: Without 2f lock, ON: With 2f lock	x	x	0	1	x	No Unit	0	Analog Value	
576		40577	Group 2 set/get: DIRG4 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
577		40578	Group 2 set/get: DIRG4 operating voltage	x	x	20	1000	1	V	1	Analog Value	
578		40579	Group 2 set/get: DIRG4 operating current *	x	x	10 *1 1 *2	1000	5 *1 1 *2	mA *1 A *2	1	Analog Value	
579		40580	Group 2 set/get: DIRG4 operating time scaling factor	x	x	25	5000	1	No Unit	2	Analog Value	
580		40581	Group 2 set/get: DIRG4 inverse time limit characteristic	x	x	0	13	x	No Unit	0	Analog Value	
581		40582	Group 2 set/get: DIRG4 inverse time limit counter recovery characteristic	x	x	0	2	x	No Unit	0	Analog Value	
582		40583	Group 2 set/get: DIRG4 OFF: Without 2f lock, ON: With 2f lock	x	x	0	1	x	No Unit	0	Analog Value	
583		40584	Group 2 set/get: DIRG4 OFF: Normal characteristics, ON: IEC	x	x	0	1	x	No Unit	0	Analog Value	
584		40585	Group 2 set/get: UV1 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
585		40586	Group 2 set/get: UV1 USP (phase voltage)/UVS (line voltage) selection	x	x	0	1	x	No Unit	0	Analog Value	
586		40587	Group 2 set/get: UV1 output three-phase OR/AND selection	x	x	0	1	x	No Unit	0	Analog Value	
587		40588	Group 2 set/get: UV1 operating voltage	x	x	200	1200	1	V	1	Analog Value	
588		40589	Group 2 set/get: UV1 operating time	x	x	0	1000	1	s	2	Analog Value	
589		40590	Group 2 set/get: UV2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
590		40591	Group 2 set/get: UV2 USP (phase voltage)/UVS (line voltage) selection	x	x	0	1	x	No Unit	0	Analog Value	
591		40592	Group 2 set/get: UV2 output three-phase OR/AND selection	x	x	0	1	x	No Unit	0	Analog Value	
592		40593	Group 2 set/get: UV2 operating voltage	x	x	200	1200	1	V	1	Analog Value	
593		40594	Group 2 set/get: UV2 operating time	x	x	0	1000	1	s	2	Analog Value	
594		40595	Group 2 set/get: OV1 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
595		40596	Group 2 set/get: OV1 OVP (phase voltage)/OVS (line voltage) selection	x	x	0	1	x	No Unit	0	Analog Value	
596		40597	Group 2 set/get: OV1 operating voltage	x	x	200	2000	1	V	1	Analog Value	
597		40598	Group 2 set/get: OV1 operating time	x	x	0	1000	1	s	2	Analog Value	
598		40599	Group 2 set/get: OV2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
599		40600	Group 2 set/get: OV2 OVP (phase voltage)/OVS (line voltage) selection	x	x	0	1	x	No Unit	0	Analog Value	
600		40601	Group 2 set/get: OV2 operating voltage	x	x	200	2000	1	V	1	Analog Value	
601		40602	Group 2 set/get: OV2 operating time	x	x	0	1000	1	s	2	Analog Value	
602		40603	Group 2 set/get: OVG1 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
603		40604	Group 2 set/get: OVG1 operating voltage	x	x	20	1000	1	V	1	Analog Value	
604		40605	Group 2 set/get: OVG1 operating time	x	x	0	1000	1	s	2	Analog Value	
605		40606	Group 2 set/get: OVG2 OFF: Do not use, ON: Use	x	x	0	1	x	No Unit	0	Analog Value	
606		40607	Group 2 set/get: OVG2 operating voltage	x	x	20	1000	1	V	1	Analog Value	
607		40608	Group 2 set/get: OVG2 operating time	x	x	0	1000	1	s	2	Analog Value	
608												



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.) (Note 1)	Range (Max.) (Note 1)	Step	Engineering Unit	Scale (Note 2)	Signal Type	Remarks
634		40635	For exclusive use of manufacturer									
635		40636	Group 2 set/get: 3PB VT OFF: Do not use, ON: Use	x	x	0	1	x	No Units	0	Analog Value	
636		40637	Group 2 set/get: 3PB VT zero phase voltage monitoring and detection	x	x	10	1000	1		1	Analog Value	
637		40638	For exclusive use of manufacturer									
638		40639	For exclusive use of manufacturer									
639		40640	Group 2 set/get: V0-SEL VG: Use VG terminal input	x	x	0	1	x	No Unit	0	Analog Value	
640		40641	For exclusive use of manufacturer									
641		40642	Group 2 set/get: VINPUT switch voltage reading (D: Line, Y: Phase)	x	x	0	1	x	No Unit	0	Analog Value	
642	16 3	40643	Group 2 set/get: V-SEL VT selection (3P: Three-phase, 2P: Two-phase (remaining phase is S/W combination))	x	x	0	1	x	No Unit	0	Analog Value	With a "Setting value" request from the master station as Function Code: 3, the slave will respond with (MODBUS send) the response data. With a "Set setting value" request from the master station as Function Code: 16, the slave will respond with (MODBUS send) the response data.
643		40644	(Reserved)									
644		40645	(Reserved)									
645		40646	(Reserved)									
646		40647	(Reserved)									
647		40648	(Reserved)									
648		40649	(Reserved)									
649		40650	(Reserved)									
650		40651	(Reserved)									
651		40652	(Reserved)									
652		40653	(Reserved)									
653		40654	(Reserved)									
654		40655	(Reserved)									
655		40656	(Reserved)									
656		40657	(Reserved)									
657		40658	(Reserved)									
658		40659	(Reserved)									
659		40660	(Reserved)									
660		40661	(Reserved)									
661		40662	(Reserved)									
662		40663	(Reserved)									
663		40664	(Reserved)									
664		40665	(Reserved)									
665		40666	(Reserved)									
666		40667	(Reserved)									
667		40668	(Reserved)									
668		40669	(Reserved)									
669		40670	(Reserved)									
670		40671	(Reserved)									
671		40672	(Reserved)									
672		40673	(Reserved)									
673		40674	(Reserved)									
674		40675	(Reserved)									
675		40676	(Reserved)									
676		40677	(Reserved)									
677		40678	(Reserved)									
678		40679	(Reserved)									
679		40680	(Reserved)									
680		40681	(Reserved)									
681		40682	(Reserved)									
682		40683	(Reserved)									
683		40684	(Reserved)									
684		40685	(Reserved)									
685		40686	(Reserved)									
686		40687	(Reserved)									
687		40688	(Reserved)									
688		40689	(Reserved)									
689		40690	(Reserved)									
690		40691	(Reserved)									
691		40692	(Reserved)									
692		40693	(Reserved)									
693		40694	(Reserved)									
694		40695	(Reserved)									
695		40696	(Reserved)									
696		40697	(Reserved)									
697		40698	(Reserved)									
698		40699	(Reserved)									
699		40700	(Reserved)									
700		40701	(Reserved)									
701		40702	(Reserved)									
702		40703	(Reserved)									
703		40704	(Reserved)									
704		40705	(Reserved)									
705		40706	(Reserved)									
706		40707	(Reserved)									
707		40708	(Reserved)									
708		40709	(Reserved)									
709		40710	(Reserved)									
710		40711	(Reserved)									
711		40712	(Reserved)									
712		40713	(Reserved)									
713		40714	(Reserved)									
714		40715	(Reserved)									
715		40716	(Reserved)									
716		40717	(Reserved)									
717		40718	(Reserved)									
718		40719	(Reserved)									
719		40720	(Reserved)									
720		40721	(Reserved)									
721		40722	(Reserved)									
722		40723	(Reserved)									
723		40724	(Reserved)									
724		40725	(Reserved)									
725		40726	(Reserved)									
726		40727	(Reserved)									
727		40728	(Reserved)									
728		40729	(Reserved)									
729		40730	(Reserved)									
730		40731	(Reserved)									
731		40732	(Reserved)									
732		40733	(Reserved)									
733		40734	(Reserved)									
734		40735	(Reserved)									
735		40736	(Reserved)									
736		40737	(Reserved)									
737		40738	(Reserved)									
738		40739	(Reserved)									
739		40740	(Reserved)									
740		40741	(Reserved)									
741		40742	(Reserved)									
742		40743	(Reserved)									
743		40744	(Reserved)									
744		40745	(Reserved)									
745		40746	(Reserved)									
746		40747	(Reserved)									
747		40748	(Reserved)									
748		40749	(Reserved)									
749		40750	(Reserved)									
750		40751	(Reserved)									
751		40752	(Reserved)									
752		40753	(Reserved)									
753		40754	(Reserved)									
754		40755	(Reserved)									
755		40756	(Reserved)									

With a "Setting value" request from the master station as Function Code: 3, the slave will respond with (MODBUS send) the response data. With a "Set setting value" request from the master station as Function Code: 16, the slave will respond with (MODBUS send) the response data.

On MODBUS:  
 • Start address = 40501+1\*i  
 • Number of access points = 1\*j  
 • i+j <= 256  
 (i=0 to 255, j=1 to 256)

→ When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.

For exclusive use of manufacturer: Items that are applicable to the VFD and not applicable to Modbus in the items list are fixed as 0 when read. They also cannot be written.



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.) (Note 1)	Range (Max.) (Note 1)	Step	Engineering Unit	Scale (Note 2)	Signal Type	Remarks	
1000	16 3	41001	Group 1 start operation: 2f/1f content rate	x	x						Analog Value	With a "Setting value" request from the master station as Function Code: 3, the slave will respond with (MODBUS send) the response data. With a "Set setting value" request from the master station as Function Code: 16, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 41001+1* • Number of access points = 1* • i+j<=256 (i=0 to 255, j=1 to 256)  → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.  If out of range or out of step, the slave will respond with an error status with the 39807 completion check.  When start operation for a setting value is received, the slave will respond (MODBUS send) with 05 ACKNOWLEDGE.  • When any kind of data is received in a reserved area, the slave will notify the master of the error with the check group 1 setting value data writing processing.  For exclusive use of manufacturer: Items that are applicable to the VFD and not applicable to Modbus in the items list are fixed as 0 when read. They also cannot be written.	
1001		41002	Group 1 start operation: 1f limiter	x	x						Analog Value		
1002		41003	Group 1 start operation: OC1 OFF: Do not use, ON: Use	x	x								Analog Value
1003		41004	Group 1 start operation: OC1 operating current	x	x								Analog Value
1004		41005	Group 1 start operation: OC1 operating time	x	x								Analog Value
1005		41006	Group 1 start operation: OCG1 use/do not use	x	x								Analog Value
1006		41007	Group 1 start operation: OCG1 operating current	x	x								Analog Value
1007		41008	Group 1 start operation: OCG1 operating time	x	x								Analog Value
1008		41009	Group 1 start operation: OC2 OFF: Do not use, ON: Use	x	x								Analog Value
1009		41010	Group 1 start operation: OC2 operating current	x	x								Analog Value
1010		41011	Group 1 start operation: OC2 operating time	x	x								Analog Value
1011		41012	Group 1 start operation: OC2 OFF: Without F2 lock, ON: With F2 lock	x	x								Analog Value
1012		41013	Group 1 start operation: OCG2 OFF: Do not use, ON: Use	x	x								Analog Value
1013		41014	Group 1 start operation: OCG2 operating current	x	x								Analog Value
1014		41015	Group 1 start operation: OCG2 operating time	x	x								Analog Value
1015		41016	Group 1 start operation: OCG2 OFF: Without 2f lock, ON: With 2f lock	x	x								Analog Value
1016		41017	Group 1 start operation: OC3 OFF: Do not use, ON: Use	x	x								Analog Value
1017		41018	Group 1 start operation: OC3 operating current	x	x								Analog Value
1018		41019	Group 1 start operation: OC3 operating time	x	x								Analog Value
1019		41020	Group 1 start operation: OC3 OFF: Without F2 lock, ON: With F2 lock	x	x								Analog Value
1020		41021	Group 1 start operation: OCG3 OFF: Do not use, ON: Use	x	x								Analog Value
1021		41022	Group 1 start operation: OCG3 operating current	x	x								Analog Value
1022		41023	Group 1 start operation: OCG3 operating time	x	x								Analog Value
1023		41024	Group 1 start operation: OCG3 OFF: Without 2f lock, ON: With 2f lock	x	x								Analog Value
1024		41025	Group 1 start operation: OC4 OFF: Do not use, ON: Use	x	x								Analog Value
1025		41026	Group 1 start operation: OC4 operating current	x	x								Analog Value
1026		41027	Group 1 start operation: OC4 operating time scaling factor	x	x								Analog Value
1027		41028	Group 1 start operation: OC4 inverse time limit operating characteristic	x	x								Analog Value
1028		41029	Group 1 start operation: OC4 inverse time limit counter recovery	x	x								Analog Value
1029		41030	Group 1 start operation: OC4 OFF: Without 2f lock, ON: With 2f lock	x	x								Analog Value
1030		41031	Group 1 start operation: OC4 OFF: Normal characteristics, ON: IEC characteristics	x	x								Analog Value
1031		41032	Group 1 start operation: OCG4 OFF: Do not use, ON: Use	x	x								Analog Value
1032		41033	Group 1 start operation: OCG4 operating current	x	x								Analog Value
1033		41034	Group 1 start operation: OCG4 operating time scaling factor	x	x								Analog Value
1034		41035	Group 1 start operation: OCG4 inverse time limit characteristic	x	x								Analog Value
1035		41036	Group 1 start operation: OCG4 inverse time limit counter recovery	x	x								Analog Value
1036		41037	Group 1 start operation: OCG4 OFF: Without 2f lock, ON: With 2f lock	x	x								Analog Value
1037		41038	Group 1 start operation: OCG4 OFF: Normal characteristics, ON: IEC characteristics	x	x								Analog Value
1038		41039	Group 1 start operation: OCNEG1 OFF: Do not use, ON: Use	x	x								Analog Value
1039		41040	Group 1 start operation: OCNEG1 operating current	x	x								Analog Value
1040		41041	Group 1 start operation: OCNEG1 operating time	x	x								Analog Value
1041		41042	Group 1 start operation: OCNEG2 OFF: Do not use, ON: Use	x	x								Analog Value
1042		41043	Group 1 start operation: OCNEG2 operating current	x	x								Analog Value
1043		41044	Group 1 start operation: OCNEG2 operating time	x	x								Analog Value
1044		41045	Group 1 start operation: UC1 OFF: Do not use, ON: Use	x	x								Analog Value
1045		41046	Group 1 start operation: UC1 output three-phase OR/AND selection	x	x								Analog Value
1046		41047	Group 1 start operation: UC1 UC detection method	x	x								Analog Value
1047		41048	Group 1 start operation: UC1 operating current	x	x								Analog Value
1048		41049	Group 1 start operation: UC1 minimum current sensitivity	x	x								Analog Value
1049		41050	Group 1 start operation: UC1 operating time	x	x								Analog Value
1050		41051	Group 1 start operation: UC2 OFF: Do not use, ON: Use	x	x								Analog Value
1051		41052	Group 1 start operation: UC2 output three-phase OR/AND selection	x	x								Analog Value
1052		41053	Group 1 start operation: UC2 UC detection method	x	x								Analog Value
1053		41054	Group 1 start operation: UC2 operating current	x	x								Analog Value
1054		41055	Group 1 start operation: UC2 minimum current sensitivity	x	x								Analog Value
1055		41056	Group 1 start operation: UC2 operating time	x	x								Analog Value
1056		41057	Group 1 start operation: CBF OFF: Do not use, ON: Use	x	x								Analog Value
1057		41058	Group 1 start operation: CBF OFF: Do not use, ON: Use	x	x								Analog Value
1058		41059	Group 1 start operation: CBF operating current	x	x								Analog Value
1059		41060	Group 1 start operation: CBF operating current	x	x								Analog Value
1060		41061	Group 1 start operation: CBF operating time	x	x								Analog Value
1061		41062	Group 1 start operation: DIRG maximum sensitivity angle	x	x								Analog Value
1062		41063	Group 1 start operation: DIRG1 OFF: Do not use, ON: Use	x	x								Analog Value
1063		41064	Group 1 start operation: DIRG1 operating voltage	x	x								Analog Value
1064		41065	Group 1 start operation: DIRG1 operating current	x	x								Analog Value
1065		41066	Group 1 start operation: DIRG1 operating time	x	x								Analog Value
1066		41067	Group 1 start operation: DIRG2 OFF: Do not use, ON: Use	x	x								Analog Value
1067		41068	Group 1 start operation: DIRG2 operating voltage	x	x								Analog Value
1068		41069	Group 1 start operation: DIRG2 operating current	x	x								Analog Value
1069		41070	Group 1 start operation: DIRG2 operating time	x	x								Analog Value
1070		41071	Group 1 start operation: DIRG2 OFF: Without 2f lock, ON: With 2f lock	x	x								Analog Value
1071		41072	Group 1 start operation: DIRG3 OFF: Do not use, ON: Use	x	x								Analog Value
1072		41073	Group 1 start operation: DIRG3 operating voltage	x	x								Analog Value
1073		41074	Group 1 start operation: DIRG3 operating current	x	x								Analog Value
1074		41075	Group 1 start operation: DIRG3 operating time	x	x								Analog Value
1075		41076	Group 1 start operation: DIRG3 OFF: Without 2f lock, ON: With 2f lock	x	x								Analog Value
1076		41077	Group 1 start operation: DIRG4 OFF: Do not use, ON: Use	x	x								Analog Value
1077		41078	Group 1 start operation: DIRG4 operating voltage	x	x								Analog Value
1078		41079	Group 1 start operation: DIRG4 operating current	x	x								Analog Value
1079		41080	Group 1 start operation: DIRG4 operating time scaling factor	x	x								Analog Value
1080		41081	Group 1 start operation: DIRG4 inverse time limit characteristic	x	x								Analog Value
1081		41082	Group 1 start operation: DIRG4 inverse time limit counter recovery	x	x								Analog Value
1082		41083	Group 1 start operation: DIRG4 OFF: Without 2f lock, ON: With 2f lock	x	x								Analog Value
1083		41084	Group 1 start operation: DIRG4 OFF: Normal characteristics, ON: IEC characteristics	x	x								Analog Value
1084		41085	Group 1 start operation: UV1 OFF: Do not use, ON: Use	x	x								Analog Value
1085		41086	Group 1 start operation: UV1 USP (phase voltage)/UVS (line voltage)	x	x								Analog Value
1086		41087	Group 1 start operation: UV1 output three-phase OR/AND selection	x	x								Analog Value
1087		41088	Group 1 start operation: UV1 operating voltage	x	x								Analog Value
1088		41089	Group 1 start operation: UV1 operating time	x	x								Analog Value
1089		41090	Group 1 start operation: UV2 OFF: Do not use, ON: Use	x	x								Analog Value
1090		41091	Group 1 start operation: UV2 USP (phase voltage)/UVS (line voltage)	x	x								Analog Value
1091		41092	Group 1 start operation: UV2 output three-phase OR/AND selection	x	x								Analog Value
1092		41093	Group 1 start operation: UV2 operating voltage	x	x								Analog Value
1093		41094	Group 1 start operation: UV2 operating time	x	x								Analog Value
1094		41095	Group 1 start operation: OV1 OFF: Do not use, ON: Use	x	x								Analog Value
1095		41096	Group 1 start operation: OV1 OVP (phase voltage)/OVS (line voltage)	x	x								Analog Value
1096		41097	Group 1 start operation: OV1 operating voltage	x	x								Analog Value
1097		41098	Group 1 start operation: OV1 operating time	x	x								Analog Value
1098		41099	Group 1 start operation: OV2 OFF: Do not use, ON: Use	x	x								Analog Value
1099		41100	Group 1 start operation: OV2 OVP (phase voltage)/OVS (line voltage)	x	x								Analog Value
1100		41101	Group 1 start operation: OV2 operating voltage	x	x								Analog Value
1101		41102	Group 1 start operation: OV2 operating time	x	x								Analog Value
1102		41103	Group 1 start operation: OVG1 OFF: Do not use, ON: Use	x	x								Analog Value
1103		41104	Group 1 start operation: OVG1 operating voltage	x	x								Analog Value
1104		41105	Group 1 start operation: OVG1 operating time	x	x								Analog Value
1105		41106	Group 1 start operation: OVG2 OFF: Do not use, ON: Use	x	x								Analog Value
1106		41107	Group 1 start operation: OVG2 operating voltage	x	x								Analog Value
1107		41108	Group 1 start operation: OVG2 operating time	x	x								Analog Value
1108		41109	Group 1 start operation: OVNEG1 OFF: Do not use, ON: Use	x	x								Analog Value
1109		41110	Group 1 start operation: OVNEG1 operating voltage	x	x								Analog Value
1110		41111	Group 1 start operation: OVNEG1 operating time	x	x								Analog Value
1111		41112	Group 1 start operation: OVNEG2 OFF: Do not use, ON: Use	x	x								Analog Value
1112		41113	Group 1 start operation: OVNEG2 operating voltage	x	x								Analog Value
1113		41114	Group 1 start operation: OVNEG2 operating time	x	x								Analog Value
1114		41115	For exclusive use of manufacturer										
1115		41116	Group 1 start operation: UF1 OFF: Do not use, ON: Use	x	x								Analog Value
1116		41117	Group 1 start operation: UF1 operating frequency (difference from rated frequency)	x	x								Analog Value
1117		41118	Group 1 start operation: UF1 operating time	x	x								Analog Value
1118		41119	Group 1 start operation: UF2 OFF: Do not use, ON: Use	x	x								Analog Value
1119		41120	Group 1 start operation: UF2 operating frequency (difference from rated frequency)	x	x								Analog Value
1120		41121	Group 1 start operation: UF2 operating time										



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.) (Note 1)	Range (Max.) (Note 1)	Step	Engineering Unit	Scale (Note 2)	Signal Type	Remarks	
1133	16 3	41134	For exclusive use of manufacturer									With a "Setting value" request from the master station as Function Code: 3, the slave will respond with (MODBUS send) the response data. With a "Set setting value" request from the master station as Function Code: 16, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 41001+1*i • Number of access points = 1*j • i+j<=256 (i=0 to 255, j=1 to 256)  → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.  If out of range or out of step, the slave will respond with an error status with the 39807 completion check.  When start operation for a setting value is received, the slave will respond (MODBUS send) with 05 ACKNOWLEDGE.  • When any kind of data is received in a reserved area, the slave will notify the master of the error with the check group 1 setting value data writing processing.  For exclusive use of manufacturer: Items that are applicable to the VFD and not applicable to Modbus in the items list are fixed as 0 when read. They also cannot be written.	
1134		41135	For exclusive use of manufacturer										
1135		41136	Group 1 start operation: 3PB VT OFF: Do not use, ON: Use	x	x			Same as group 1 set/get setting value.					Analog Value
1136		41137	Group 1 start operation: 3PB VT zero phase voltage monitoring and detection time	x	x			Same as group 1 set/get setting value.					Analog Value
1137		41138	For exclusive use of manufacturer										
1138		41139	For exclusive use of manufacturer										
1139		41140	Group 1 start operation: V0-SEL VG: Use VG terminal input	x	x			Same as group 1 set/get setting value.					Analog Value
1140		41141	For exclusive use of manufacturer										
1141		41142	Group 1 start operation: VINPUT switch voltage reading (D: Line, Y:	x	x			Same as group 1 set/get setting value.					Analog Value
1142		41143	Group 1 start operation: V-SEL VT selection (3P: Three-phase, 2P: Two-phase (remaining phase is S/W combination))	x	x			Same as group 1 set/get setting value.					Analog Value
1143		41144	(Reserved)	x	x			Same as group 1 set/get setting value.					Analog Value
1144		41145	(Reserved)	x	x			Same as group 1 set/get setting value.					Analog Value
1145		41146	(Reserved)	x	x			Same as group 1 set/get setting value.					Analog Value
1146		41147	(Reserved)	x	x			Same as group 1 set/get setting value.					Analog Value
1147		41148	(Reserved)	x	x			Same as group 1 set/get setting value.					Analog Value
1148		41149	(Reserved)	x	x			Same as group 1 set/get setting value.					Analog Value
1149		41150	(Reserved)	x	x			Same as group 1 set/get setting value.					Analog Value
1150		41151	(Reserved)	x	x			Same as group 1 set/get setting value.					Analog Value
1151		41152	(Reserved)	x	x			Same as group 1 set/get setting value.					Analog Value
1152		41153	(Reserved)	x	x			Same as group 1 set/get setting value.					Analog Value
1153		41154	(Reserved)	x	x			Same as group 1 set/get setting value.					Analog Value
1154		41155	(Reserved)	x	x			Same as group 1 set/get setting value.					Analog Value
1155		41156	(Reserved)	x	x			Same as group 1 set/get setting value.					Analog Value
1156		41157	(Reserved)	x	x			Same as group 1 set/get setting value.					Analog Value
1157		41158	(Reserved)	x	x			Same as group 1 set/get setting value.					Analog Value
1158	41159	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1159	41160	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1160	41161	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1161	41162	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1162	41163	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1163	41164	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1164	41165	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1165	41166	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1166	41167	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1167	41168	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1168	41169	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1169	41170	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1170	41171	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1171	41172	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1172	41173	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1173	41174	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1174	41175	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1175	41176	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1176	41177	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1177	41178	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1178	41179	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1179	41180	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1180	41181	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1181	41182	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1182	41183	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1183	41184	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1184	41185	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1185	41186	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1186	41187	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1187	41188	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1188	41189	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1189	41190	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1190	41191	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1191	41192	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1192	41193	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1193	41194	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1194	41195	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1195	41196	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1196	41197	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1197	41198	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1198	41199	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1199	41200	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1200	41201	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1201	41202	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1202	41203	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1203	41204	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1204	41205	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1205	41206	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1206	41207	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1207	41208	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1208	41209	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1209	41210	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1210	41211	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1211	41212	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1212	41213	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1213	41214	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1214	41215	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1215	41216	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1216	41217	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1217	41218	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1218	41219	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1219	41220	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1220	41221	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1221	41222	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1222	41223	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1223	41224	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1224	41225	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1225	41226	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1226	41227	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1227	41228	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1228	41229	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1229	41230	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1230	41231	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1231	41232	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1232	41233	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1233	41234	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1234	41235	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1235	41236	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1236	41237	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1237	41238	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1238	41239	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1239	41240	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1240	41241	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1241	41242	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1242	41243	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1243	41244	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1244	41245	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1245	41246	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1246	41247	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1247	41248	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1248	41249	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1249	41250	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1250	41251	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1251	41252	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1252	41253	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1253	41254	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1254	41255	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		
1255	41256	(Reserved)	x	x			Same as group 1 set/get setting value.				Analog Value		



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.) (Note 1)	Range (Max.) (Note 1)	Step	Engineering Unit	Scale (Note 2)	Signal Type	Remarks
1500	16 3	41501	Group 2 start operation: 2f/1f content rate	x	x						Analog Value	With a "Setting value" request from the master station as Function Code: 3, the slave will respond with (MODBUS send) the response data. With a "Set setting value" request from the master station as Function Code: 16, the slave will respond with (MODBUS send) the response data.
1501		41502	Group 2 start operation: 1f limiter	x	x						Analog Value	
1502		41503	Group 2 start operation: OC1 OFF: Do not use, ON: Use	x	x						Analog Value	
1503		41504	Group 2 start operation: OC1 operating current	x	x						Analog Value	
1504		41505	Group 2 start operation: OC1 operating time	x	x						Analog Value	
1505		41506	Group 2 start operation: OCG1 use/do not use	x	x						Analog Value	
1506		41507	Group 2 start operation: OCG1 operating current	x	x						Analog Value	
1507		41508	Group 2 start operation: OCG1 operating time	x	x						Analog Value	
1508		41509	Group 2 start operation: OC2 OFF: Do not use, ON: Use	x	x						Analog Value	
1509		41510	Group 2 start operation: OC2 operating current	x	x						Analog Value	
1510		41511	Group 2 start operation: OC2 operating time	x	x						Analog Value	
1511		41512	Group 2 start operation: OC2 OFF: Without F2 lock, ON: With F2 lock	x	x						Analog Value	
1512		41513	Group 2 start operation: OCG2 OFF: Do not use, ON: Use	x	x						Analog Value	
1513		41514	Group 2 start operation: OCG2 operating current	x	x						Analog Value	
1514		41515	Group 2 start operation: OCG2 operating time	x	x						Analog Value	
1515		41516	Group 2 start operation: OCG2 OFF: Without 2f lock, ON: With 2f lock	x	x						Analog Value	
1516		41517	Group 2 start operation: OC3 OFF: Do not use, ON: Use	x	x						Analog Value	
1517		41518	Group 2 start operation: OC3 operating current	x	x						Analog Value	
1518		41519	Group 2 start operation: OC3 operating time	x	x						Analog Value	
1519		41520	Group 2 start operation: OC3 OFF: Without F2 lock, ON: With F2 lock	x	x						Analog Value	
1520		41521	Group 2 start operation: OCG3 OFF: Do not use, ON: Use	x	x						Analog Value	
1521		41522	Group 2 start operation: OCG3 operating current	x	x						Analog Value	
1522		41523	Group 2 start operation: OCG3 operating time	x	x						Analog Value	
1523		41524	Group 2 start operation: OCG3 OFF: Without 2f lock, ON: With 2f lock	x	x						Analog Value	
1524		41525	Group 2 start operation: OC4 OFF: Do not use, ON: Use	x	x						Analog Value	
1525		41526	Group 2 start operation: OC4 operating current	x	x						Analog Value	
1526		41527	Group 2 start operation: OC4 operating time scaling factor	x	x						Analog Value	
1527		41528	Group 2 start operation: OC4 inverse time limit operating characteristic	x	x						Analog Value	
1528		41529	Group 2 start operation: OC4 inverse time limit counter recovery	x	x						Analog Value	
1529		41530	Group 2 start operation: OC4 OFF: Without 2f lock, ON: With 2f lock	x	x						Analog Value	
1530		41531	Group 2 start operation: OC4 OFF: Normal characteristics, ON: IEC characteristics	x	x						Analog Value	
1531		41532	Group 2 start operation: OCG4 OFF: Do not use, ON: Use	x	x						Analog Value	
1532		41533	Group 2 start operation: OCG4 operating current	x	x						Analog Value	
1533		41534	Group 2 start operation: OCG4 operating time scaling factor	x	x						Analog Value	
1534		41535	Group 2 start operation: OCG4 inverse time limit characteristic	x	x						Analog Value	
1535		41536	Group 2 start operation: OCG4 inverse time limit counter recovery	x	x						Analog Value	
1536		41537	Group 2 start operation: OCG4 OFF: Without 2f lock, ON: With 2f lock	x	x						Analog Value	
1537		41538	Group 2 start operation: OCG4 OFF: Normal characteristics, ON: IEC characteristics	x	x						Analog Value	
1538		41539	Group 2 start operation: OCNEG1 OFF: Do not use, ON: Use	x	x						Analog Value	
1539		41540	Group 2 start operation: OCNEG1 operating current	x	x						Analog Value	
1540		41541	Group 2 start operation: OCNEG1 operating time	x	x						Analog Value	
1541		41542	Group 2 start operation: OCNEG2 OFF: Do not use, ON: Use	x	x						Analog Value	
1542		41543	Group 2 start operation: OCNEG2 operating current	x	x						Analog Value	
1543		41544	Group 2 start operation: OCNEG2 operating time	x	x						Analog Value	
1544		41545	Group 2 start operation: UC1 OFF: Do not use, ON: Use	x	x						Analog Value	
1545		41546	Group 2 start operation: UC1 output three-phase OR/AND selection	x	x						Analog Value	
1546		41547	Group 2 start operation: UC1 UC detection method	x	x						Analog Value	
1547		41548	Group 2 start operation: UC1 operating current	x	x						Analog Value	
1548		41549	Group 2 start operation: UC1 minimum current sensitivity	x	x						Analog Value	
1549		41550	Group 2 start operation: UC1 operating time	x	x						Analog Value	
1550		41551	Group 2 start operation: UC2 OFF: Do not use, ON: Use	x	x						Analog Value	
1551		41552	Group 2 start operation: UC2 output three-phase OR/AND selection	x	x						Analog Value	
1552		41553	Group 2 start operation: UC2 UC detection method	x	x						Analog Value	
1553		41554	Group 2 start operation: UC2 operating current	x	x						Analog Value	
1554		41555	Group 2 start operation: UC2 minimum current sensitivity	x	x						Analog Value	
1555		41556	Group 2 start operation: UC2 operating time	x	x						Analog Value	
1556		41557	Group 2 start operation: CBF OFF: Do not use, ON: Use	x	x						Analog Value	
1557		41558	Group 2 start operation: CBF OFF: Do not use, ON: Use	x	x						Analog Value	
1558		41559	Group 2 start operation: CBF operating current	x	x						Analog Value	
1559		41560	Group 2 start operation: CBF operating current	x	x						Analog Value	
1560		41561	Group 2 start operation: CBF operating time	x	x						Analog Value	
1561		41562	Group 2 start operation: DIRG maximum sensitivity angle	x	x						Analog Value	
1562		41563	Group 2 start operation: DIRG1 OFF: Do not use, ON: Use	x	x						Analog Value	
1563		41564	Group 2 start operation: DIRG1 operating voltage	x	x						Analog Value	
1564		41565	Group 2 start operation: DIRG1 operating current	x	x						Analog Value	
1565		41566	Group 2 start operation: DIRG1 operating time	x	x						Analog Value	
1566		41567	Group 2 start operation: DIRG2 OFF: Do not use, ON: Use	x	x						Analog Value	
1567		41568	Group 2 start operation: DIRG2 operating voltage	x	x						Analog Value	
1568		41569	Group 2 start operation: DIRG2 operating current	x	x						Analog Value	
1569		41570	Group 2 start operation: DIRG2 operating time	x	x						Analog Value	
1570		41571	Group 2 start operation: DIRG2 OFF: Without 2f lock, ON: With 2f lock	x	x						Analog Value	
1571		41572	Group 2 start operation: DIRG3 OFF: Do not use, ON: Use	x	x						Analog Value	
1572		41573	Group 2 start operation: DIRG3 operating voltage	x	x						Analog Value	
1573		41574	Group 2 start operation: DIRG3 operating current	x	x						Analog Value	
1574		41575	Group 2 start operation: DIRG3 operating time	x	x						Analog Value	
1575		41576	Group 2 start operation: DIRG3 OFF: Without 2f lock, ON: With 2f lock	x	x						Analog Value	
1576		41577	Group 2 start operation: DIRG4 OFF: Do not use, ON: Use	x	x						Analog Value	
1577		41578	Group 2 start operation: DIRG4 operating voltage	x	x						Analog Value	
1578		41579	Group 2 start operation: DIRG4 operating current	x	x						Analog Value	
1579		41580	Group 2 start operation: DIRG4 operating time scaling factor	x	x						Analog Value	
1580		41581	Group 2 start operation: DIRG4 inverse time limit characteristic	x	x						Analog Value	
1581		41582	Group 2 start operation: DIRG4 inverse time limit counter recovery	x	x						Analog Value	
1582		41583	Group 2 start operation: DIRG4 OFF: Without 2f lock, ON: With 2f lock	x	x						Analog Value	
1583		41584	Group 2 start operation: DIRG4 OFF: Normal characteristics, ON: IEC characteristics	x	x						Analog Value	
1584		41585	Group 2 start operation: UV1 OFF: Do not use, ON: Use	x	x						Analog Value	
1585		41586	Group 2 start operation: UV1 USP (phase voltage)/UVS (line voltage)	x	x						Analog Value	
1586		41587	Group 2 start operation: UV1 output three-phase OR/AND selection	x	x						Analog Value	
1587		41588	Group 2 start operation: UV1 operating voltage	x	x						Analog Value	
1588		41589	Group 2 start operation: UV1 operating time	x	x						Analog Value	
1589		41590	Group 2 start operation: UV2 OFF: Do not use, ON: Use	x	x						Analog Value	
1590		41591	Group 2 start operation: UV2 USP (phase voltage)/UVS (line voltage)	x	x						Analog Value	
1591		41592	Group 2 start operation: UV2 output three-phase OR/AND selection	x	x						Analog Value	
1592		41593	Group 2 start operation: UV2 operating voltage	x	x						Analog Value	
1593		41594	Group 2 start operation: UV2 operating time	x	x						Analog Value	
1594		41595	Group 2 start operation: OV1 OFF: Do not use, ON: Use	x	x						Analog Value	
1595		41596	Group 2 start operation: OV1 OVP (phase voltage)/OVS (line voltage)	x	x						Analog Value	
1596		41597	Group 2 start operation: OV1 operating voltage	x	x						Analog Value	
1597		41598	Group 2 start operation: OV1 operating time	x	x						Analog Value	
1598		41599	Group 2 start operation: OV2 OFF: Do not use, ON: Use	x	x						Analog Value	
1599		41600	Group 2 start operation: OV2 OVP (phase voltage)/OVS (line voltage)	x	x						Analog Value	
1600		41601	Group 2 start operation: OV2 operating voltage	x	x						Analog Value	
1601		41602	Group 2 start operation: OV2 operating time	x	x						Analog Value	
1602		41603	Group 2 start operation: OVG1 OFF: Do not use, ON: Use	x	x						Analog Value	
1603		41604	Group 2 start operation: OVG1 operating voltage	x	x						Analog Value	
1604		41605	Group 2 start operation: OVG1 operating time	x	x						Analog Value	
1605		41606	Group 2 start operation: OVG2 OFF: Do not use, ON: Use	x	x						Analog Value	
1606		41607	Group 2 start operation: OVG2 operating voltage	x	x						Analog Value	
1607		41608	Group 2 start operation: OVG2 operating time	x	x						Analog Value	
1608		41609	Group 2 start operation: OVNEG1 OFF: Do not use, ON: Use	x	x						Analog Value	
1609		41610	Group 2 start operation: OVNEG1 operating voltage	x	x						Analog Value	
1610		41611	Group 2 start operation: OVNEG1 operating time	x	x						Analog Value	
1611		41612	Group 2 start operation: OVNEG2 OFF: Do not use, ON: Use	x	x						Analog Value	
1612		41613	Group 2 start operation: OVNEG2 operating voltage	x	x						Analog Value	
1613		41614	Group 2 start operation: OVNEG2 operating time	x	x						Analog Value	
1614		41615	For exclusive use of manufacturer									
1615		41616	Group 2 start operation: UF1 OFF: Do not use, ON: Use	x	x						Analog Value	
1616		41617	Group 2 start operation: UF1 operating frequency (difference from rated frequency)	x	x						Analog Value	
1617		41618	Group 2 start operation: UF1 operating time	x	x						Analog Value	
1618		41619	Group 2 start operation: UF2 OFF: Do not use, ON: Use	x	x						Analog Value	
1619		41620	Group 2 start operation: UF2 operating frequency (difference from rated frequency)	x	x						Analog Value	
1620		41621	Group 2 start operation: UF2 operating time	x	x						Analog Value	
1621		41622	Group 2 start operation: UF3 OFF: Do not use, ON: Use	x	x						Analog Value	
1622		41623	Group 2 start operation: UF3 operating frequency (difference from rated frequency)	x	x							



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.) (Note 1)	Range (Max.) (Note 1)	Step	Engineering Unit	Scale (Note 2)	Signal Type	Remarks	
1633	16 3	41634	(Reserved)									With a "Setting value" request from the master station as Function Code: 3, the slave will respond with (MODBUS send) the response data. With a "Set setting value" request from the master station as Function Code: 16, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 41501+1*j • Number of access points = 1*j • i+j<=256 (i=0 to 255, j=1 to 256)  → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.  If out of range or out of step, the slave will respond with an error status with the 39808 completion check.  When start operation for a setting value is received, the slave will respond (MODBUS send) with 05 ACKNOWLEDGE.  • When any kind of data is received in a reserved area, the slave will notify the master of the error with the check group 2 setting value data writing processing.  For exclusive use of manufacturer: Items that are applicable to the VFD and not applicable to Modbus in the items list are fixed as 0 when read. They also cannot be written.	
1634		41635	(Reserved)										
1635		41636	Group 2 start operation: 3PB VT OFF: Do not use, ON: Use	x	x								Analog Value
1636		41637	Group 2 start operation: 3PB VT zero phase voltage monitoring and detection time	x	x								Analog Value
1637		41638	For exclusive use of manufacturer										
1638		41639	For exclusive use of manufacturer										
1639		41640	Group 2 start operation: V0-SEL VG: Use VG terminal input	x	x								Analog Value
1640		41641	For exclusive use of manufacturer										Analog Value
1641		41642	Group 2 start operation: VINPUT switch voltage reading (D: Line, Y:	x	x								Analog Value
1642		41643	Group 2 start operation: V-SEL VT selection (3P: Three-phase, 2P: Two-phase (remaining phase is S/W combination))	x	x								Analog Value
1643		41644	(Reserved)										
1644		41645	(Reserved)										
1645		41646	(Reserved)										
1646		41647	(Reserved)										
1647		41648	(Reserved)										
1648		41649	(Reserved)										
1649		41650	(Reserved)										
1650		41651	(Reserved)										
1651		41652	(Reserved)										
1652		41653	(Reserved)										
1653		41654	(Reserved)										
1654		41655	(Reserved)										
1655		41656	(Reserved)										
1656		41657	(Reserved)										
1657		41658	(Reserved)										
1658		41659	(Reserved)										
1659		41660	(Reserved)										
1660		41661	(Reserved)										
1661		41662	(Reserved)										
1662		41663	(Reserved)										
1663		41664	(Reserved)										
1664		41665	(Reserved)										
1665		41666	(Reserved)										
1666		41667	(Reserved)										
1667		41668	(Reserved)										
1668		41669	(Reserved)										
1669		41670	(Reserved)										
1670		41671	(Reserved)										
1671		41672	(Reserved)										
1672		41673	(Reserved)										
1673	41674	(Reserved)											
1674	41675	(Reserved)											
1675	41676	(Reserved)											
1676	41677	(Reserved)											
1677	41678	(Reserved)											
1678	41679	(Reserved)											
1679	41680	(Reserved)											
1680	41681	(Reserved)											
1681	41682	(Reserved)											
1682	41683	(Reserved)											
1683	41684	(Reserved)											
1684	41685	(Reserved)											
1685	41686	(Reserved)											
1686	41687	(Reserved)											
1687	41688	(Reserved)											
1688	41689	(Reserved)											
1689	41690	(Reserved)											
1690	41691	(Reserved)											
1691	41692	(Reserved)											
1692	41693	(Reserved)											
1693	41694	(Reserved)											
1694	41695	(Reserved)											
1695	41696	(Reserved)											
1696	41697	(Reserved)											
1697	41698	(Reserved)											
1698	41699	(Reserved)											
1699	41700	(Reserved)											
1700	41701	(Reserved)											
1701	41702	(Reserved)											
1702	41703	(Reserved)											
1703	41704	(Reserved)											
1704	41705	(Reserved)											
1705	41706	(Reserved)											
1706	41707	(Reserved)											
1707	41708	(Reserved)											
1708	41709	(Reserved)											
1709	41710	(Reserved)											
1710	41711	(Reserved)											
1711	41712	(Reserved)											
1712	41713	(Reserved)											
1713	41714	(Reserved)											
1714	41715	(Reserved)											
1715	41716	(Reserved)											
1716	41717	(Reserved)											
1717	41718	(Reserved)											
1718	41719	(Reserved)											
1719	41720	(Reserved)											
1720	41721	(Reserved)											
1721	41722	(Reserved)											
1722	41723	(Reserved)											
1723	41724	(Reserved)											
1724	41725	(Reserved)											
1725	41726	(Reserved)											
1726	41727	(Reserved)											
1727	41728	(Reserved)											
1728	41729	(Reserved)											
1729	41730	(Reserved)											
1730	41731	(Reserved)											
1731	41732	(Reserved)											
1732	41733	(Reserved)											
1733	41734	(Reserved)											
1734	41735	(Reserved)											
1735	41736	(Reserved)											
1736	41737	(Reserved)											
1737	41738	(Reserved)											
1738	41739	(Reserved)											
1739	41740	(Reserved)											
1740	41741	(Reserved)											
1741	41742	(Reserved)											
1742	41743	(Reserved)											
1743	41744	(Reserved)											
1744	41745	(Reserved)											
1745	41746	(Reserved)											
1746	41747	(Reserved)											
1747	41748	(Reserved)											
1748	41749	(Reserved)											
1749	41750	(Reserved)											
1750	41751	(Reserved)											
1751	41752	(Reserved)											
1752	41753	(Reserved)											
1753	41754	(Reserved)											
1754	41755	(Reserved)											
1755	41756	(Reserved)											

Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.) (Note 1)	Range (Max.) (Note 1)	Step	Engineering Unit	Scale (Note 2)	Signal Type	Remarks
2000	16 3	42001	Common setting value set/get: Operation settings group number (1 or 2)	x	x	1	2	x	No Unit	0	Analog Value	With a "Setting value" request from the master station as Function Code: 3, the slave will respond with (MODBUS send) the response data. With a "Set setting value" request from the master station as Function Code: 16, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 42001+1*i • Number of access points = 1*j • i+j<=256 (i=0 to 255, j=1 to 256)  → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.  For exclusive use of manufacturer: Items that are applicable to the VFD and not applicable to Modbus in the items list are fixed as 0 when read. They also cannot be written.  * The setting value depending on the zero-sequence current type. *1: ZCT Type *2: 5A Type
2001		42002	For exclusive use of manufacturer									
2002		42003	Common setting value set/get: DI detection voltage setting <selection>	x	x	4	8	x	V	0	Analog Value	
2003		42004	Common setting value set/get: Time before starting save waveform data (20 ms to 4500 ms)	x	x	100	4500	10	ms	0	Analog Value	
2004		42005	Common setting value set/get: Waveform data save start time	x	x	200	5000	10	ms	0	Analog Value	
2005		42006	For exclusive use of manufacturer									
2006		42007	For exclusive use of manufacturer									
2007		42008	For exclusive use of manufacturer									
2008		42009	For exclusive use of manufacturer									
2009		42010	Common setting value set/get: Initial trip count value (0 to 10,000)	x	x	0	10000	1	No Unit	0	Analog Value	
2010		42011	Common setting value set/get: Trip count value monitoring tap value (1	x	x	1	10000	1	No Unit	0	Analog Value	
2011		42012	For exclusive use of manufacturer									
2012		42013	For exclusive use of manufacturer									
2013		42014	For exclusive use of manufacturer									
2014		42015	For exclusive use of manufacturer									
2015		42016	For exclusive use of manufacturer									
2016		42017	For exclusive use of manufacturer									
2017		42018	For exclusive use of manufacturer									
2018		42019	For exclusive use of manufacturer									
2019		42020	For exclusive use of manufacturer									
2020		42021	For exclusive use of manufacturer									
2021		42022	For exclusive use of manufacturer									
2022		42023	For exclusive use of manufacturer									
2023		42024	For exclusive use of manufacturer									
2024		42025	For exclusive use of manufacturer									
2025		42026	For exclusive use of manufacturer									
2026		42027	For exclusive use of manufacturer									
2027		42028	For exclusive use of manufacturer									
2028		42029	For exclusive use of manufacturer									
2029		42030	For exclusive use of manufacturer									
2030		42031	For exclusive use of manufacturer									
2031		42032	For exclusive use of manufacturer									
2032		42033	For exclusive use of manufacturer									
2033		42034	For exclusive use of manufacturer									
2034		42035	For exclusive use of manufacturer									
2035		42036	For exclusive use of manufacturer									
2036		42037	For exclusive use of manufacturer									
2037		42038	For exclusive use of manufacturer									
2038		42039	For exclusive use of manufacturer									
2039		42040	For exclusive use of manufacturer									
2040	42041	Common setting value set/get: AI display primary value/secondary value setting <selection>	x	x	0	1	1	No Unit	0	Analog Value		
2041	42042	Common setting value set/get: CT/PT0_primary value	x	x	10	9900	1	kV	2	Analog Value		
2042	42043	Common setting value set/get: CT/PT0_secondary value	x	x	100	125	1	V	0	Analog Value		
2043	42044	Common setting value set/get: CT/PT1_primary value	x	x	10	9900	1	kV	2	Analog Value		
2044	42045	Common setting value set/get: CT/PT1_secondary value	x	x	100	220	1	V	0	Analog Value		
2045	42046	Common setting value set/get: CT/PT2_primary value	x	x	1	30000	1	A	0	Analog Value		
2046	42047	Common setting value set/get: CT/PT2_secondary value	x	x	5	5	x	A	0	Analog Value		
2047	42048	Common setting value set/get: CT/PT3_primary value *	x	x	1 *1 1 *2	1000 *1 30000 *2	1 *1 1 *2	A	1 *1 0 *2	Analog Value		
2048	42049	Common setting value set/get: CT/PT3_secondary value (fixed value) *	x	x	3 *1 5 *2	3 *1 5 *2	x	No Unit	0	Analog Value		
2049	42050	For exclusive use of manufacturer										
2050	42051	For exclusive use of manufacturer										
2051	42052	For exclusive use of manufacturer										
2052	42053	For exclusive use of manufacturer										
2053	42054	Common setting value set/get: Tidal direction of electrical energy	x	x	0	1	x	No Unit	0	Analog Value		
2054	42055	Common setting value set/get: +Pt initial setting value (L)	x	x	0	999999999	1	kWh	0	Analog Value		
2055	42056	Common setting value set/get: +Pt initial setting value (H)	x	x	0	999999999	1	kWh	0	Analog Value		
2056	42057	Common setting value set/get: -Pt initial setting value (L)	x	x	0	999999999	1	kWh	0	Analog Value		
2057	42058	Common setting value set/get: -Pt initial setting value (H)	x	x	0	999999999	1	kWh	0	Analog Value		
2058	42059	Common setting value set/get: +Qt initial setting value (L)	x	x	0	999999999	1	kVarh	0	Analog Value		
2059	42060	Common setting value set/get: +Qt initial setting value (H)	x	x	0	999999999	1	kVarh	0	Analog Value		
2060	42061	Common setting value set/get: -Qt initial setting value (L)	x	x	0	999999999	1	kVarh	0	Analog Value		
2061	42062	Common setting value set/get: -Qt initial setting value (H)	x	x	0	999999999	1	kVarh	0	Analog Value		
2062	42063	For exclusive use of manufacturer										
2063	42064	For exclusive use of manufacturer										
2064	42065	Common setting value set/get: System time zone	x	x	-52	52	x	No Unit	0	Analog Value		
2065	42066	Common setting value set/get: DST support	x	x	0	3	1	No Unit	0	Analog Value		
2066	42067	Common setting value set/get: DST start month	x	x	0	11	1	No Unit	0	Analog Value		
2067	42068	Common setting value set/get: DST start week	x	x	1	255	x	No Unit	0	Analog Value		
2068	42069	Common setting value set/get: DST start day of the week	x	x	0	6	1	No Unit	0	Analog Value		
2069	42070	Common setting value set/get: DST start hour	x	x	0	23	1	No Unit	0	Analog Value		
2070	42071	Common setting value set/get: DST start minute	x	x	0	59	1	No Unit	0	Analog Value		
2071	42072	Common setting value set/get: DST end month	x	x	0	11	1	No Unit	0	Analog Value		
2072	42073	Common setting value set/get: DST end week	x	x	1	255	x	No Unit	0	Analog Value		
2073	42074	Common setting value set/get: DST end day of the week	x	x	0	6	1	No Unit	0	Analog Value		
2074	42075	Common setting value set/get: DST end hour	x	x	0	23	1	No Unit	0	Analog Value		
2075	42076	Common setting value set/get: DST end minute	x	x	0	59	1	No Unit	0	Analog Value		
2076	42077	Common setting value set/get: DST offset	x	x	3600	32400	x	No Unit	0	Analog Value		
2077	42078	Common setting value set/get: DST base time	x	x	85	170	x	No Unit	0	Analog Value		
2078	42079	Common setting value set/get: Time sync (use IRIG-B)	x	x	0	17	x	No Unit	0	Analog Value		
2079	42080	Common setting value set/get: IRIG-B type	x	x	0	2	1	No Unit	0	Analog Value		
2080	42081	Common setting value set/get: IEEE-1344 extension setting	x	x	0	95	x	No Unit	0	Analog Value		
2081	42082	Common setting value set/get: IRIG time zone	x	x	-52	52	x	No Unit	0	Analog Value		
2082	42083	For exclusive use of manufacturer										
2083	42084	For exclusive use of manufacturer										
2084	42085	For exclusive use of manufacturer										
2085	42086	For exclusive use of manufacturer										
2086	42087	For exclusive use of manufacturer										
2087	42088	For exclusive use of manufacturer										
2088	42089	For exclusive use of manufacturer										
2089	42090	For exclusive use of manufacturer										
2090	42091	For exclusive use of manufacturer										
2091	42092	For exclusive use of manufacturer										
2092	42093	For exclusive use of manufacturer										
2093	42094	For exclusive use of manufacturer										
2094	42095	For exclusive use of manufacturer										
2095	42096	For exclusive use of manufacturer										
2096	42097	For exclusive use of manufacturer										
2097	42098	For exclusive use of manufacturer										
2098	42099	For exclusive use of manufacturer										
2099	42100	For exclusive use of manufacturer										
2100	42101	For exclusive use of manufacturer										
2101	42102	For exclusive use of manufacturer										
2102	42103	For exclusive use of manufacturer										
2103	42104	For exclusive use of manufacturer										
2104	42105	For exclusive use of manufacturer										
2105	42106	For exclusive use of manufacturer										
2106	42107	For exclusive use of manufacturer										
2107	42108	For exclusive use of manufacturer										
2108	42109	For exclusive use of manufacturer										
2109	42110	For exclusive use of manufacturer										
2110	42111	For exclusive use of manufacturer										
2111	42112	For exclusive use of manufacturer										
2112	42113	Common setting value set/get: L/R setting	x	x	0	1	x	No Unit	0	Analog Value		
2113	42114	Common setting value set/get: Use interlock setting	x	x	0	1	x	No Unit	0	Analog Value		
2114	42115	Common setting value set/get: OPEN block setting	x	x	0	1	x	No Unit	0	Analog Value		
2115	42116	Common setting value set/get: CLOSE block setting	x	x	0	1	x	No Unit	0	Analog Value		
2116	42117	Common setting value set/get: Control wait time	x	x	0	60	1	s	0	Analog Value		
2117	42118	For exclusive use of manufacturer										
2118	42119	For exclusive use of manufacturer										
2119	42120	For exclusive use of manufacturer										
2120	42121	For exclusive use of manufacturer										
2121	42122	For exclusive use of manufacturer										
2122	42123	For exclusive use of manufacturer										
2123	42124	For exclusive use of manufacturer										
2124	42125	For exclusive use of manufacturer										
2125	42126	For exclusive use of manufacturer										
2126	42127	Common setting value set/get: Forced DO control setting	x	x	1	20	1	s	0	Analog Value		
2127	42128	For exclusive use of manufacturer										
2128	42129	For exclusive use of manufacturer										
2129	42130	For exclusive use of manufacturer										
2130	42131	For exclusive use of manufacturer										
2131	42132	For exclusive use of manufacturer										
2132	42133	For exclusive use of manufacturer										
2133	42134	For exclusive use of manufacturer										
2134	42135	For exclusive use of manufacturer										







Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.) (Note 1)	Range (Max.) (Note 1)	Step	Engineering Unit	Scale (Note 2)	Signal Type	Remarks
3000	16 3	43001	Common setting value start operation: Operation settings group number (1 or 2)	x	x				Same as common set/get.		Analog Value	With a "Setting value" request from the master station as Function Code: 3, the slave will respond with (MODBUS send) the response data. With a "Set setting value" request from the master station as Function Code: 16, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 43001+1*j • Number of access points = 1*j • i+j<=255 (i=0 to 254, j=1 to 255)  → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.  If out of range or out of step, the slave will respond with an error status with the 39809 completion check.  When start operation for a setting value is received, the slave will respond (MODBUS send) with 05 ACKNOWLEDGE.  • When any kind of data is received in a reserved area, the slave will notify the master of the error with the check common setting value data writing processing.  For exclusive use of manufacturer: Items that are applicable to the VFD and not applicable to Modbus in the items list are fixed as 0 when read. They also cannot be written.
3001		43002	For exclusive use of manufacturer									
3002		43003	Common setting value start operation: DI detection voltage setting	x	x				Same as common set/get.		Analog Value	
3003		43004	Common setting value start operation: Time before starting save waveform data (20 ms to 4500 ms)	x	x				Same as common set/get.		Analog Value	
3004		43005	Common setting value start operation: Waveform data save start time	x	x				Same as common set/get.		Analog Value	
3005		43006	For exclusive use of manufacturer									
3006		43007	For exclusive use of manufacturer									
3007		43008	For exclusive use of manufacturer									
3008		43009	For exclusive use of manufacturer									
3009		43010	Common setting value start operation: Initial trip count value (0 to	x	x				Same as common set/get.		Analog Value	
3010		43011	Common setting value start operation: Trip count value monitoring tap value (1 to 10,000)	x	x				Same as common set/get.		Analog Value	
3011		43012	For exclusive use of manufacturer									
3012		43013	For exclusive use of manufacturer									
3013		43014	For exclusive use of manufacturer									
3014		43015	For exclusive use of manufacturer									
3015		43016	For exclusive use of manufacturer									
3016		43017	For exclusive use of manufacturer									
3017		43018	For exclusive use of manufacturer									
3018		43019	For exclusive use of manufacturer									
3019		43020	For exclusive use of manufacturer									
3020		43021	For exclusive use of manufacturer									
3021		43022	For exclusive use of manufacturer									
3022		43023	For exclusive use of manufacturer									
3023		43024	For exclusive use of manufacturer									
3024		43025	For exclusive use of manufacturer									
3025		43026	For exclusive use of manufacturer									
3026		43027	For exclusive use of manufacturer									
3027		43028	For exclusive use of manufacturer									
3028		43029	For exclusive use of manufacturer									
3029		43030	For exclusive use of manufacturer									
3030		43031	For exclusive use of manufacturer									
3031		43032	For exclusive use of manufacturer									
3032		43033	For exclusive use of manufacturer									
3033		43034	For exclusive use of manufacturer									
3034		43035	For exclusive use of manufacturer									
3035		43036	For exclusive use of manufacturer									
3036		43037	For exclusive use of manufacturer									
3037		43038	For exclusive use of manufacturer									
3038		43039	For exclusive use of manufacturer									
3039		43040	For exclusive use of manufacturer									
3040		43041	Common setting value start operation: AI display primary value/secondary value setting <selection>	x	x				Same as common set/get.		Analog Value	
3041		43042	Common setting value start operation: CT/PT0 primary value	x	x				Same as common set/get.		Analog Value	
3042		43043	Common setting value start operation: CT/PT0 secondary value	x	x				Same as common set/get.		Analog Value	
3043		43044	Common setting value start operation: CT/PT1 primary value	x	x				Same as common set/get.		Analog Value	
3044		43045	Common setting value start operation: CT/PT1 secondary value	x	x				Same as common set/get.		Analog Value	
3045		43046	Common setting value start operation: CT/PT2 primary value	x	x				Same as common set/get.		Analog Value	
3046		43047	Common setting value start operation: CT/PT2 secondary value	x	x				Same as common set/get.		Analog Value	
3047		43048	Common setting value start operation: CT/PT3 primary value	x	x				Same as common set/get.		Analog Value	
3048		43049	Common setting value start operation: CT/PT3 secondary value	x	x				Same as common set/get.		Analog Value	
3049		43050	For exclusive use of manufacturer									
3050		43051	For exclusive use of manufacturer									
3051		43052	For exclusive use of manufacturer									
3052		43053	For exclusive use of manufacturer									
3053		43054	Common setting value start operation: Tidal direction of electrical energy <selection>	x	x				Same as common set/get.		Analog Value	
3054		43055	Common setting value start operation: +Pt initial setting value (L)	x	x				Same as common set/get.		Analog Value	
3055		43056	Common setting value start operation: +Pt initial setting value (H)	x	x				Same as common set/get.		Analog Value	
3056		43057	Common setting value start operation: -Pt initial setting value (L)	x	x				Same as common set/get.		Analog Value	
3057		43058	Common setting value start operation: -Pt initial setting value (H)	x	x				Same as common set/get.		Analog Value	
3058		43059	Common setting value start operation: +Qt initial setting value (L)	x	x				Same as common set/get.		Analog Value	
3059		43060	Common setting value start operation: +Qt initial setting value (H)	x	x				Same as common set/get.		Analog Value	
3060		43061	Common setting value start operation: -Qt initial setting value (L)	x	x				Same as common set/get.		Analog Value	
3061		43062	Common setting value start operation: -Qt initial setting value (H)	x	x				Same as common set/get.		Analog Value	
3062		43063	For exclusive use of manufacturer									
3063		43064	For exclusive use of manufacturer									
3064		43065	Common setting value start operation: System time zone	x	x				Same as common set/get.		Analog Value	
3065		43066	Common setting value start operation: DST support	x	x				Same as common set/get.		Analog Value	
3066		43067	Common setting value start operation: DST start month	x	x				Same as common set/get.		Analog Value	
3067		43068	Common setting value start operation: DST start week	x	x				Same as common set/get.		Analog Value	
3068		43069	Common setting value start operation: DST start day of the week	x	x				Same as common set/get.		Analog Value	
3069		43070	Common setting value start operation: DST start hour	x	x				Same as common set/get.		Analog Value	
3070		43071	Common setting value start operation: DST start minute	x	x				Same as common set/get.		Analog Value	
3071		43072	Common setting value start operation: DST end month	x	x				Same as common set/get.		Analog Value	
3072		43073	Common setting value start operation: DST end week	x	x				Same as common set/get.		Analog Value	
3073		43074	Common setting value start operation: DST end day of the week	x	x				Same as common set/get.		Analog Value	
3074		43075	Common setting value start operation: DST end hour	x	x				Same as common set/get.		Analog Value	
3075		43076	Common setting value start operation: DST end minute	x	x				Same as common set/get.		Analog Value	
3076		43077	Common setting value start operation: DST offset	x	x				Same as common set/get.		Analog Value	
3077		43078	Common setting value start operation: DST base time	x	x				Same as common set/get.		Analog Value	
3078		43079	Common setting value start operation: Time sync (use IRIG-B)	x	x				Same as common set/get.		Analog Value	
3079		43080	Common setting value start operation: IRIG-B type	x	x				Same as common set/get.		Analog Value	
3080		43081	Common setting value start operation: IEEE-1344 extension setting	x	x				Same as common set/get.		Analog Value	
3081		43082	Common setting value start operation: IRIG time zone	x	x				Same as common set/get.		Analog Value	
3082		43083	For exclusive use of manufacturer									
3083		43084	For exclusive use of manufacturer									
3084		43085	For exclusive use of manufacturer									
3085		43086	For exclusive use of manufacturer									
3086		43087	For exclusive use of manufacturer									
3087		43088	For exclusive use of manufacturer									
3088		43089	For exclusive use of manufacturer									
3089		43090	For exclusive use of manufacturer									
3090		43091	For exclusive use of manufacturer									
3091		43092	For exclusive use of manufacturer									
3092		43093	For exclusive use of manufacturer									
3093		43094	For exclusive use of manufacturer									
3094		43095	For exclusive use of manufacturer									
3095		43096	For exclusive use of manufacturer									
3096		43097	For exclusive use of manufacturer									
3097		43098	For exclusive use of manufacturer									
3098		43099	For exclusive use of manufacturer									
3099		43100	For exclusive use of manufacturer									
3100		43101	For exclusive use of manufacturer									
3101		43102	For exclusive use of manufacturer									
3102		43103	For exclusive use of manufacturer									
3103		43104	For exclusive use of manufacturer									
3104		43105	For exclusive use of manufacturer									
3105		43106	For exclusive use of manufacturer									
3106		43107	For exclusive use of manufacturer									
3107		43108	For exclusive use of manufacturer									
3108		43109	For exclusive use of manufacturer									
3109		43110	For exclusive use of manufacturer									
3110		43111	For exclusive use of manufacturer									
3111		43112	For exclusive use of manufacturer									
3112		43113	Common setting value start operation: L/R setting	x	x				Same as common set/get.		Analog Value	
3113		43114	Common setting value start operation: Use interlock setting	x	x				Same as common set/get.		Analog Value	
3114		43115	Common setting value start operation: OPEN block setting	x	x				Same as common set/get.		Analog Value	
3115		43116	Common setting value start operation: CLOSE block setting	x	x				Same as common set/get.		Analog Value	
3116		43117	Common setting value start operation: Control wait time	x	x				Same as common set/get.		Analog Value	
3117		43118	For exclusive use of manufacturer									
3118		43119	For exclusive use of manufacturer									
3119		43120	For exclusive use of manufacturer									
3120		43121	For exclusive use of manufacturer									
3121		43122	For exclusive use of manufacturer									
3122		43123	For exclusive use of manufacturer									
3123		43124	For exclusive use of manufacturer									
3124		43125	For exclusive use of manufacturer									
3125		43126	For exclusive use of manufacturer									
3126		43127	Common setting value start operation: Forced DO control setting	x	x				Same as common set/get.		Analog Value	
3127		43128	For exclusive use of manufacturer									
3128		43129	For exclusive use of manufacturer									
3129		43130	For exclusive use of manufacturer									





Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.) (Note 1)	Range (Max.) (Note 1)	Step	Engineering Unit	Scale (Note 2)	Signal Type	Remarks
4000	16 3	44001	Time settings: Relay time (BCD) year/month/day (H)	x	x	0x1970	0x2069	-	No Unit	0	Analog Value	With a "Current time" request from the master station as Function Code: 3, the slave will respond with (MODBUS send) the response data.  On MODBUS: • Start address = 44001+1*i • Number of access points = 5 Fixed value.
4001		44002	Time settings: Relay time (BCD) year/month/day (L)	x	x	0x0101	0x1231	-	No Unit	0	Analog Value	With a "Set setting value" request from the master station as Function Code: 16, the slave will respond with (MODBUS send) the response data.
4002		44003	Time settings: Relay time (BCD) hour/minute/second (H)	x	x	0x0000	0x2359	-	No Unit	0	Analog Value	On MODBUS: • Start address = 44001+1*i • Number of access points = 4 Fixed value.  → When an error occurs, the slave will respond with (MODBUS send) 02: ILLEGAL DATA ADDRESS.
4003		44004	Time settings: Relay time (BCD) hour/minute/second (L)	x	x	0x0000	0x5900	-	No Unit	0	Analog Value	When there is a time data error, the slave will respond with (MODBUS send) 03: ILLEGAL DATA VALUE.
4004		44005	Time type	x	x	1	4	-	No Unit	0	Analog Value	(BCD information) 1970 to 2069 (BCD information) 1/1 to 12/31 (BCD information) 0:00 to 23:59 (BCD information) 0 to 59 seconds (L is reserved)
4005		44006	(Reserved)									
4006		44007	(Reserved)									
4007		44008	(Reserved)									
4008		44009	(Reserved)									
4009		44010	(Reserved)									
4010		44011	(Reserved)									
4011		44012	(Reserved)									
4012		44013	(Reserved)									
4013		44014	(Reserved)									
4014		44015	(Reserved)									
4015		44016	(Reserved)									
4016		44017	(Reserved)									
4017		44018	(Reserved)									
4018		44019	(Reserved)									
4019		44020	(Reserved)									
4020		44021	(Reserved)									
4021		44022	(Reserved)									
4022		44023	(Reserved)									
4023		44024	(Reserved)									
4024		44025	(Reserved)									
4025		44026	(Reserved)									
4026		44027	(Reserved)									
4027		44028	(Reserved)									
4028		44029	(Reserved)									
4029		44030	(Reserved)									
4030		44031	(Reserved)									
4031		44032	(Reserved)									
4032		44033	(Reserved)									
4033		44034	(Reserved)									
4034		44035	(Reserved)									
4035		44036	(Reserved)									
4036		44037	(Reserved)									
4037		44038	(Reserved)									
4038		44039	(Reserved)									
4039		44040	(Reserved)									
4040		44041	(Reserved)									
4041		44042	(Reserved)									
4042		44043	(Reserved)									
4043		44044	(Reserved)									
4044		44045	(Reserved)									
4045		44046	(Reserved)									
4046		44047	(Reserved)									
4047		44048	(Reserved)									
4048		44049	(Reserved)									
4049		44050	(Reserved)									
4050		44051	(Reserved)									
4051		44052	(Reserved)									
4052		44053	(Reserved)									
4053		44054	(Reserved)									
4054		44055	(Reserved)									
4055		44056	(Reserved)									
4056		44057	(Reserved)									
4057		44058	(Reserved)									
4058		44059	(Reserved)									
4059		44060	(Reserved)									
4060		44061	(Reserved)									
4061		44062	(Reserved)									
4062		44063	(Reserved)									
4063		44064	(Reserved)									
4064		44065	(Reserved)									
4065		44066	(Reserved)									
4066		44067	(Reserved)									
4067		44068	(Reserved)									
4068		44069	(Reserved)									
4069		44070	(Reserved)									
4070		44071	(Reserved)									
4071		44072	(Reserved)									
4072		44073	(Reserved)									
4073		44074	(Reserved)									
4074		44075	(Reserved)									
4075		44076	(Reserved)									
4076		44077	(Reserved)									
4077		44078	(Reserved)									
4078		44079	(Reserved)									
4079		44080	(Reserved)									
4080		44081	(Reserved)									
4081		44082	(Reserved)									
4082		44083	(Reserved)									
4083		44084	(Reserved)									
4084		44085	(Reserved)									
4085		44086	(Reserved)									
4086		44087	(Reserved)									
4087		44088	(Reserved)									
4088		44089	(Reserved)									
4089		44090	(Reserved)									
4090		44091	(Reserved)									
4091		44092	(Reserved)									
4092		44093	(Reserved)									
4093		44094	(Reserved)									
4094		44095	(Reserved)									
4095		44096	(Reserved)									
4096		44097	(Reserved)									
4097		44098	(Reserved)									
4098		44099	(Reserved)									
4099		44100	(Reserved)									



Serial No.	Function Code	Modbus Address (Register No.)	Description	Device Bit Status = 1	Device Bit Status = 0	Range (Min.) (Note 1)	Range (Max.) (Note 1)	Step	Engineering Unit	Scale (Note 2)	Signal Type	Remarks
4100	16 3	44101	Get trip data (trip header/model-specific data) phenomenon number (H)	x	x	0x00000000	0x3B9ACA00		No Unit		Analog Value	Get trip data (trip header/model-specific data/phenomenon number) request
4101		44102	Get trip data (trip header/model-specific data) phenomenon number (L)	x	x							
4102		44103	Get trip data (trip header/model-specific data) block number	x	x	1	20		No Unit		Analog Value	Get trip data (trip header/model-specific data/block number) request
4103		44104	Get trip data (trip header/analog/digital data) phenomenon number (H)	x	x	0x00000000	0x3B9ACA00		No Unit		Analog Value	Get trip data (analog/digital data/phenomenon number) request
4104		44105	Get trip data (trip header/analog/digital data) phenomenon number (L)	x	x							
4105		44106	Get trip data (analog/digital data) block number	x	x	1	20		No Unit		Analog Value	Get trip data (analog/digital data/block number) request
4106		44107	Same as above: Record number	x	x	0	aved IT count-1		No Unit		Analog Value	Get trip data (analog/digital data/record number) request

(Note 1) The range (minimum) and range (maximum) of the setting value is a whole-number multiple of the actual setting value.

(Note 2) The scale of the setting value indicates the number of digits after the decimal point of the actual setting value.