MITSUBISHI ELECTRIC

Numerical Protection Relay

MELPRO™-D Series

IEC 61850
Signal Assigned Map (Instance Table)

TYPE: CAC1-A41D1

LD (Logical device)	LN (Logical node)	FC (Function constraint)	Data object name	CDC (Common data class)	Data attribute name	Signal Name	Comments
Relay	LLN0	ST	Loc	SPS	stVal	CB_LR	Select Local / Remote for circuit breaker control
		CO	LEDRs	SPC	ctlVal	LED_RESET	LED reset by C key on front panel or demand from IEC61850
	LPHD	ST	Phyhealth	INS	stVal	RUN ALARM-L	Abnormal condition of constant supervision (non alarm | light alarm)
	PTRC1 Trip	ST	OpCntRs	INC	stVal	Ope.Count	trip counter
			Tr	ACT	general	ALL_ELE_OR	Trip signal of all element (OR)
	PDIF1 DIFF	ST	Str	ACD (Unknown)	general	DIFF-3D_O	Detection signal of DIFF element. This signal is turned on by OR logic of A phase, B phase and C phase.
			Op	ACT	general	DIFF-3_O	Operation signal of DIFF element. This signal is turned on by OR logic of A phase, B phase and C phase.
					phsA	DIFF-A	Operation signal of DIFF Element (87T) A-phase.
					phsB	DIFF-B	Operation signal of DIFF Element (87T) B-phase.
					phsC	DIFF-C	Operation signal of DIFF Element (87T) C-phase.
	PDIF2 DIFFH	ST	Str	ACD (Unknown)	general	DFH-3D_O	Detection signal of DIFFH (INST_DIFF) Element. This signal is turned on by OR logic of A phase, B phase and C phase.
			Op	ACT	general	DIFH-3_O	Operation signal of DIFFH (INST_DIFF) Element. This signal is turned on by OR logic of A phase, B phase and C phase.
					phsA	DIFFH-A	Operation signal of DIFFH Element (87TH) A-phase.
					phsB	DIFFH-B	Operation signal of DIFFH Element (87TH) B-phase.
					phsC	DIFFH-C	Operation signal of DIFFH Element (87TH) C-phase.
	PDIF3 RGFH	ST	Str	ACD (Unknown)	general	RGFH-D	Detection signal of RGFH (87TN, Zero-seq differential of high side winding) Element.
			Op	ACT	general	RGFH	Operation signal of RGFH (87TN, Zero-seq differential of high side winding) Element.
	PDIF4 RGFL	ST	Str	ACD (Unknown)	general	RGFL-D	Detection signal of RGFL (87TN, Zero-seq differential of low side winding) Element.
			Op	ACT	general	RGFL	Operation signal of RGFL (87TN, Zero-seq differential of low side winding) Element.
	PTOC1 OC1H	ST	Str	ACD (Unknown)	general	OC1H-3D_O	Detection signal of OC1H (50) element. This signal is turned on by OR logic of A phase, B phase and C phase.
			Op	ACT	general	OC1H-3_O	Operation signal of OC1H (50) element. This signal is turned on by OR logic of A phase, B phase and C phase.
					phsA	OC1H-A	Detection signal of OC1H (50) element A-phase.
					phsB	OC1H-B	Detection signal of OC1H (50) element B-phase.
					phsC	OC1H-C	Detection signal of OC1H (50) element C-phase.
	PTOC2 OC1L	ST	Str	ACD (Unknown)	general	OC1L-3D_O	Detection signal of OC1L (50) element. This signal is turned on by OR logic of A phase, B phase and C phase.
			Op	ACT	general	OC1L-3_O	Operation signal of OC1L (50) element. This signal is turned on by OR logic of A phase, B phase and C phase.
					phsA	OC1L-A	Detection signal of OC1L (50) element A-phase.
					phsB	OC1L-B	Detection signal of OC1L (50) element B-phase.
					phsC	OC1L-C	Detection signal of OC1L (50) element C-phase.
	PTOC3 OCN1H	ST	Str	ACD (Unknown)	general	OC1H-ND	Operation signal of OCN1H (50) element zero-seq.
			Op	ACT	general	OC1H-N	Operation signal of OCN1H (50) element zero-seq.
	PTOC4 OCN1L	ST	Str	ACD (Unknown)	general	OC1L-ND	Operation signal of OCN1L (50) element zero-seq.
			Op	ACT	general	OC1L-N	Operation signal of OCN1L (50) element zero-seq.
	PTOC5 OC2H	ST	Str	ACD (Unknown)	general	OC2H-3D_O	Detection signal of OC2H (50) element. This signal is turned on by OR logic of A phase, B phase and C phase.
			Op	ACT	general	OC2H-3_O	Operation signal of OC2H (50) element. This signal is turned on by OR logic of A phase, B phase and C phase.
					phsA	OC2H-A	Detection signal of OC2H (50) element A-phase.
					phsB	OC2H-B	Detection signal of OC2H (50) element B-phase.
					phsC	OC2H-C	Detection signal of OC2H (50) element C-phase.
	PTOC6 OC2L	ST	Str	ACD (Unknown)	general	OC2L-3D_O	Detection signal of OC2L (50) element. This signal is turned on by OR logic of A phase, B phase and C phase.
			Op	ACT	general	OC2L-3_O	Operation signal of OC2L (50) element. This signal is turned on by OR logic of A phase, B phase and C phase.
					phsA	OC2L-A	Detection signal of OC2L (50) element A-phase.
					phsB	OC2L-B	Detection signal of OC2L (50) element B-phase.
					phsC	OC2L-C	Detection signal of OC2L (50) element C-phase.
	PTOC7 OCN2H	ST	Str	ACD (Unknown)	general	OC2H-ND	Operation signal of OCN2H (50) element zero-seq.
			Op	ACT	general	OC2H-N	Operation signal of OCN2H (50) element zero-seq.
	PTOC8 OCN2L	ST	Str	ACD (Unknown)	general	OC2L-ND	Operation signal of OCN2L (50) element zero-seq.
			Op	ACT	general	OC2L-N	Operation signal of OCN2L (50) element zero-seq.
	PTOC9 OC3H	ST	Str	ACD (Unknown)	general	OC3H-3D_O	Detection signal of OC3H (50) element. This signal is turned on by OR logic of A phase, B phase and C phase.
			Op	ACT	general	OC3H-3_O	Operation signal of OC3H (50) element. This signal is turned on by OR logic of A phase, B phase and C phase.
					phsA	OC3H-A	Detection signal of OC3H (50) element A-phase.
					phsB	OC3H-B	Detection signal of OC3H (50) element B-phase.
					phsC	OC3H-C	Detection signal of OC3H (50) element C-phase.
	PTOC10 OC3L	ST	Str	ACD (Unknown)	general	OC3L-3D_O	Detection signal of OC3L (50) element. This signal is turned on by OR logic of A phase, B phase and C phase.
			Op	ACT	general	OC3L-3_O	Operation signal of OC3L (50) element. This signal is turned on by OR logic of A phase, B phase and C phase.
					phsA	OC3L-A	Detection signal of OC3L (50) element A-phase.

LD (Logical device)	LN (Logical node)	FC (Function constraint)	Data object name	CDC (Common data class)	Data attribute name	Signal Name	Comments
					phsB	OC3L-B	Detection signal of OC3L (50) element B-phase.
					phsC	OC3L-C	Detection signal of OC3L (50) element C-phase.
	PTOC11 OCN3H	ST	Str	ACD (Unknown)	general	OC3H-ND	Operation signal of OCN3H (50) element zero-seq.
			Op	ACT	general	OC3H-N	Operation signal of OCN3H (50) element zero-seq.
	PTOC12 OCN3L	ST	Str	ACD (Unknown)	general	OC3L-ND	Operation signal of OCN3L (50) element zero-seq.
			Op	ACT	general	OC3L-N	Operation signal of OCN3L (50) element zero-seq.
	PTOC13 OC4H	ST	Str	ACD (Unknown)	general	OC4H-3D_O	Detection signal of OC4H (51) element. This signal is turned on by OR logic of A phase, B phase and C phase.
			Op	ACT	general	OC4H-3_O	Operation signal of OC4H (51) element. This signal is turned on by OR logic of A phase, B phase and C phase.
					phsA	OC4H-A	Detection signal of OC4H (51) element A-phase.
					phsB	OC4H-B	Detection signal of OC4H (51) element B-phase.
					phsC	OC4H-C	Detection signal of OC4H (51) element C-phase.
	PTOC14 OC4L	ST	Str	ACD (Unknown)	general	OC4L-3D_O	Detection signal of OC4L (51) element. This signal is turned on by OR logic of A phase, B phase and C phase.
			Op	ACT	general	OC4L-3_O	Operation signal of OC4L (51) element. This signal is turned on by OR logic of A phase, B phase and C phase.
					phsA	OC4L-A	Detection signal of OC4L (51) element A-phase.
					phsB	OC4L-B	Detection signal of OC4L (51) element B-phase.
					phsC	OC4L-C	Detection signal of OC4L (51) element C-phase.
	PTOC15 OCN4H	ST	Str	ACD (Unknown)	general	OC4H-ND	Detection signal of OCN4H (51) element zero-seq.
			Op	ACT	general	OC4H-N	Operation signal of OCN4H (51) element zero-seq.
	PTOC16 OCN4L	ST	Str	ACD (Unknown)	general	OC4L-ND	Detection signal of OCN4L (51) element zero-seq.
			Op	ACT	general	OC4L-N	Operation signal of OCN4L (51) element zero-seq.
	PTOC17 THOLH	ST	Str	ACD (Unknown)	general	THOLH-D	THOLH (49, high side winding) detection signal.
			Op	ACT	general	THOLH	THOLH (49, high side winding) operate signal.
	PTOC18 THOLL	ST	Str	ACD (Unknown)	general	THOLL-D	THOLL (49, low side winding) detection signal.
			Op	ACT	general	THOLL	THOLL (49, low side winding) operate signal.
	PTOC19 OCNEG1H	ST	Str	ACD (Unknown)	general	OCNEG1H-D	OCNEG1H (46, high side winding) detection signal.
			Op	ACT	general	NOC1H	OCNEG1H (46, high side winding) operate signal.
	PTOC120 OCNEG1L	ST	Str	ACD (Unknown)	general	OCNEG1L-D	OCNEG1L (46, low side winding) detection signal.
			Op	ACT	general	NOC1L	OCNEG1L (46, low side winding) operate signal.
	PTOC21 OCNEG2H	ST	Str	ACD (Unknown)	general	OCNEG2H-D	OCNEG2H (46, high side winding) detection signal.
			Op	ACT	general	NOC2H	OCNEG2H (46, high side winding) operate signal.
	PTOC22 OCNEG2L	ST	Str	ACD (Unknown)	general	OCNEG2L-D	OCNEG2L (46, low side winding) detection signal.
			Op	ACT	general	NOC2L	OCNEG2L (46, low side winding) operate signal.
	RBRF1 CBFH	ST	Str	ACD (Unknown)	general	CBFH-3D_O	Detection signal of CBFH (50BF, high side winding) element. This signal is turned on by OR logic of A phase, B phase
			OpEx	ACT	general	CBFH-3_O	Operation signal of CBFH (50BF, high side winding) element. This signal is turned on by OR logic of A phase, B phase
					phsA	CBFH-A	Detection signal of CBFH (50BF, high side winding) element A-phase.
					phsB	CBFH-B	Detection signal of CBFH (50BF, high side winding) element B-phase.
					phsC	CBFH-C	Detection signal of CBFH (50BF, high side winding) element C-phase.
	RBRF2 CBFNH	ST	Str	ACD (Unknown)	general	CBFH-ND	Detection signal of CBFH (50BF) element zero-seq.
			OpEx	ACT	general	CBFH-N	Operation signal of CBFH (50BF) element zero-seq.
	RBRF3 CBFL	ST	Str	ACD (Unknown)	general	CBFL-3D_O	Detection signal of CBFL (50BF, low side winding) element. This signal is turned on by OR logic of A phase, B phase
			OpEx	ACT	general	CBFL-3_O	Operation signal of CBFL (50BF, low side winding) element. This signal is turned on by OR logic of A phase, B phase
					phsA	CBFL-A	Detection signal of CBFL (50BF, low side winding) element A-phase.
					phsB	CBFL-B	Detection signal of CBFL (50BF, low side winding) element B-phase.
					phsC	CBFL-C	Detection signal of CBFL (50BF, low side winding) element C-phase.
	RBRF4 CBFNL	ST	Str	ACD (Unknown)	general	CBFL-ND	Detection signal of CBFL (50BF) element zero-seq.
			OpEx	ACT	general	CBFL-N	Operation signal of CBFL (50BF) element zero-seq.
	PHAR1 DIFF 2F	ST	Str	ACD (Unknown)	general	DF2f-3D_O	Detection signal of harmonics (2f) for DIFF element. This signal is turned on by OR logic of A phase, B phase and C phase.
	PHAR2 DIFF 5F	ST	Str	ACD (Unknown)	general	DF5f-3D_O	Detection signal of harmonics (5f) for DIFF element. This signal is turned on by OR logic of A phase, B phase and C phase.
	PHAR3 OC 2FH	ST	Str	ACD (Unknown)	general	C2fH-3D_O	Detection signal of harmonics (2f) for OC (high side winding) element. This signal is turned on by OR logic of A phase, B phase and C phase.
	PHAR4 OC 2FL	ST	Str	ACD (Unknown)	general	C2fL-3D_O	Detection signal of harmonics (2f) for OC (low side winding) element. This signal is turned on by OR logic of A phase, B phase and C phase.
	CILO1 Interlock	ST	EnaOpn	SPS	stVal	INT_LK_OP	Enable Open
			EnaCls	SPS	stVal	INT_LK_CL	Enable Close

LD (Logical device)	LN (Logical node)	FC (Function constraint)	Data object name	CDC (Common data class)	Data attribute name	Signal Name	Comments
			ElemEna	SPS	stVal	43INT_FLG	Status INTERLOCK
		CO	ElemEna	SPC	Oper.ctlVal	INT_LK_EN	INTERLOCK OFF(no use) / ON(use)
	CSWI1	ST	Pos	DPC	stVal	CBa1	Status of switch position (intermediate-state | off | on | bad-state)
	CB control	CO	Pos		Oper.ctlVal	CTL_ON	Use API of HMIR
	XCBR1	ST	Loc	SPS	stVal	False(FIX)	Local operation (local means without substation automation communication, hardwired direct control)
	Circuit breaker		OpCnt	INS	stVal	0(FIX)	Value 0 Fix, Operation counter (Count by DI input isn't done in D40)
			Pos	DPC	stVal	CBa1	Status of switch position (intermediate-state | off | on | bad-state)
			BlkOpn	SPC	stVal	CTL_BLOP1	Status value of the Block opening
		CO	BlkOpn		Oper.ctlVal	OPEN_BLK1	Control value of the Block opening OFF(no use) / ON(use)
		ST	BlkCls	SPC	stVal	CTL_BLCL1	Status value of the Block closing
		CO	BlkCls		Oper.ctlVal	CLOSE_BLK1	Control value of the Block closing OFF(no use) / ON(use)
		ST	CBOpCap	INS	stVal	1(FIX)	Value 1 Fix, Circuit breaker operating capability
	RDRE1	ST	RcdMade	SPS	stVal	RcdMade	Recording made M
			FltNum	INS	stVal	FltNum	Fault Number
	MMXU1	MX	A.phsA	WYE.CMV	cval.mag.f	IHa	High side winding of transformer, A-phase current.
					cval.ang.f	IHa_phase	High side winding of transformer, A-phase angle.
					q	STSGR0	Quality is judged by application for IHa or IHa_phase.
			A.phsB	WYE.CMV	cval.mag.f	IHb	High side winding of transformer, B-phase current.
					cval.ang.f	IHb_phase	High side winding of transformer, B-phase angle.
					q	STSGR1	Quality is judged by application for IHb or IHb_phase.
			A.phsC	WYE.CMV	cval.mag.f	IHc	High side winding of transformer, C-phase current.
					cval.ang.f	IHc_phase	High side winding of transformer, C-phase angle.
					q	STSGR2	Quality is judged by application for IHc or IHc_phase.
			I0	CMV	cval.mag.f	IHn	High side winding of transformer, zero-seq current.
					cval.ang.f	IHn_phase	High side winding of transformer, zero-seq angle.
					q	STSGR3	Quality is judged by application for IHn or IHn_phase.
	MMXU2	MX	A.phsA	WYE.CMV	cval.mag.f	ILa	Low side winding of transformer, A-phase current.
					cval.ang.f	ILa_phase	Low side winding of transformer, A-phase angle.
					q	STSGR4	Quality is judged by application for ILa or ILa_phase.
			A.phsB	WYE.CMV	cval.mag.f	ILb	Low side winding of transformer, B-phase current.
					cval.ang.f	ILb_Phase	Low side winding of transformer, B-phase angle.
					q	STSGR5	Quality is judged by application for ILb or ILb_phase.
			A.phsC	WYE.CMV	cval.mag.f	ILc	Low side winding of transformer, C-phase current.
					cval.ang.f	ILc_Phase	Low side winding of transformer, C-phase angle.
					q	STSGR6	Quality is judged by application for ILc or ILc_phase.
			I0	CMV	cVal	ILn	Low side winding of transformer, zero-seq current.
					cVal	ILn_phase	Low side winding of transformer, zero-seq angle.
					q	STSGR7	Quality is judged by application for ILn or ILn_phase.
	MSQI1	MX	SeqA.c1	SEQ.CMV	cval.mag.f	IH1	High side winding of transformer, positive-seq current.
					q	STSGR9	Quality is judged by application for IH1.
			SeqA.c2	SEQ.CMV	cval.mag.f	IH2	High side winding of transformer, negative-seq current.
					q	STSGR10	Quality is judged by application for IH2.
			SeqA.c3	SEQ.CMV	cval.mag.f	3IH0	High side winding of transformer, zero-seq (summention of A, B, C phase) current.
					q	STSGR8	Quality is judged by application for IH0.
	MSQI2	MX	SeqA.c1	SEQ.CMV	cval.mag.f	IL1	Low side winding of transformer, positive-seq current.
					q	STSGR12	Quality is judged by application for IL1.
			SeqA.c2	SEQ.CMV	cval.mag.f	IL2	Low side winding of transformer, negative-seq current.
					q	STSGR13	Quality is judged by application for IL2.
			SeqA.c3	SEQ.CMV	cval.mag.f	3IL0	Low side winding of transformer, zero-seq (summention of A, B, C phase) current.
					q	STSGR11	Quality is judged by application for IL0.
	PDIF1	MX	DifAClc.phsA	WYE.CMV	cval.mag.f	Ida	Differential current of A-phase.
					q	STSGR14	Quality is judged by application for Ida.
			DifAClc.phsB	WYE.CMV	cval.mag.f	Idb	Differential current of B-phase.
					q	STSGR15	Quality is judged by application for Idb.

LD (Logical device)	LN (Logical node)	FC (Function constraint)	Data object name	CDC (Common data class)	Data attribute name	Signal Name	Comments
			DifACIc.phsC	WYE.CMV	cval.mag.f	Idc	Differential current of C-phase.
					q	STSGR16	Quality is judged by application for Idc.
	PDIF2	MX	DifACIc.phsA	WYE.CMV	cval.mag.f	Ida	Differential current of A-phase.
					q	Idb	Quality is judged by application for Ida.
			DifACIc.phsB	WYE.CMV	cval.mag.f	Idc	Differential current of B-phase.
					q	STSGR14	Quality is judged by application for Idb.
			DifACIc.phsC	WYE.CMV	cval.mag.f	STSGR15	Differential current of C-phase.
					q	STSGR16	Quality is judged by application for Idc.
	PDIF3	MX	DifACIc.neut	WYE.CMV	cval.mag.f	IHdn	Differential current of zero-seq (high side winding).
					q	STSGR17	Quality is judged by application for IHdn.
	PDIF4	MX	DifACIc.neut	WYE.CMV	cval.mag.f	ILdn	Differential current of zero-seq (low side winding).
					q	STSGR18	Quality is judged by application for ILdn.
	GGIO1 DI	ST	Ind1	SPS	stVal	DI1	DI1-1
			Ind2	SPS	stVal	DI2	DI1-2
			Ind3	SPS	stVal	DI3	DI1-3
			Ind4	SPS	stVal	DI4	DI1-4
			Ind5	SPS	stVal	DI5	DI1-5
			Ind6	SPS	stVal	DI6	DI1-6
			Ind7	SPS	stVal	DI7	DI1-7
			Ind8	SPS	stVal	DI8	DI1-8
	GGIO2 DO	ST	Ind1	SPS	stVal	DO1	DO-1
			Ind2	SPS	stVal	DO2	DO-2
			Ind3	SPS	stVal	DO3	DO-3
			Ind1	SPS	stVal	DO1	DO-1
			Ind2	SPS	stVal	DO2	DO-2
			Ind3	SPS	stVal	DO3	DO-3
			Ind4	SPS	stVal	DO4	DO-4
			Ind5	SPS	stVal	DO5	DO-5
			Ind6	SPS	stVal	DO6	DO-6
			Ind7	SPS	stVal	DO7	DO-7
			Ind8	SPS	stVal	DO8	DO-8
	GGIO4 PLC	ST	Ind1	SPS	stVal	COMM0	The internal signals can be assigned to this communication port on PLC function in PC-HMI. The assigned signals are published via IEC 61850.
			Ind2	SPS	stVal	COMM1	The internal signals can be assigned to this communication port on PLC function in PC-HMI. The assigned signals are published via IEC 61850.
			Ind3	SPS	stVal	COMM2	The internal signals can be assigned to this communication port on PLC function in PC-HMI. The assigned signals are published via IEC 61850.
			Ind4	SPS	stVal	COMM3	The internal signals can be assigned to this communication port on PLC function in PC-HMI. The assigned signals are published via IEC 61850.
			Ind5	SPS	stVal	COMM4	The internal signals can be assigned to this communication port on PLC function in PC-HMI. The assigned signals are published via IEC 61850.
			Ind6	SPS	stVal	COMM5	The internal signals can be assigned to this communication port on PLC function in PC-HMI. The assigned signals are published via IEC 61850.
			Ind7	SPS	stVal	COMM6	The internal signals can be assigned to this communication port on PLC function in PC-HMI. The assigned signals are published via IEC 61850.
			Ind8	SPS	stVal	COMM7	The internal signals can be assigned to this communication port on PLC function in PC-HMI. The assigned signals are published via IEC 61850.
	GGIO100 GOOSE	ST	Ind1	SPS	stVal	GOOSE1	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind2	SPS	stVal	GOOSE2	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind3	SPS	stVal	GOOSE3	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind4	SPS	stVal	GOOSE4	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind5	SPS	stVal	GOOSE5	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind6	SPS	stVal	GOOSE6	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind7	SPS	stVal	GOOSE7	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind8	SPS	stVal	GOOSE8	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.

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			Ind9	SPS	stVal	GOOSE9	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind10	SPS	stVal	GOOSE10	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind11	SPS	stVal	GOOSE11	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind12	SPS	stVal	GOOSE12	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind13	SPS	stVal	GOOSE13	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind14	SPS	stVal	GOOSE14	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind15	SPS	stVal	GOOSE15	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind16	SPS	stVal	GOOSE16	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind17	SPS	stVal	GOOSE17	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind18	SPS	stVal	GOOSE18	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind19	SPS	stVal	GOOSE19	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind20	SPS	stVal	GOOSE20	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind21	SPS	stVal	GOOSE21	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind22	SPS	stVal	GOOSE22	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind23	SPS	stVal	GOOSE23	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind24	SPS	stVal	GOOSE24	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind25	SPS	stVal	GOOSE25	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind26	SPS	stVal	GOOSE26	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind27	SPS	stVal	GOOSE27	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind28	SPS	stVal	GOOSE28	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind29	SPS	stVal	GOOSE29	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind30	SPS	stVal	GOOSE30	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind31	SPS	stVal	GOOSE31	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind32	SPS	stVal	GOOSE32	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind33	SPS	stVal	GOOSE33	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind34	SPS	stVal	GOOSE34	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind35	SPS	stVal	GOOSE35	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind36	SPS	stVal	GOOSE36	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind37	SPS	stVal	GOOSE37	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind38	SPS	stVal	GOOSE38	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind39	SPS	stVal	GOOSE39	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
			Ind40	SPS	stVal	GOOSE40	The received signal from GOOSE. This signal can be use as an internal signals on PLC function in PC-HMI.
	GGIO200 Alarm	ST	Alm1	SPS	stVal	TCNT_ALM	trip counter limit over
			Alm2	SPS	stVal	TCOIL_ALM	trip coil supervision
			Alm3	SPS	stVal	DIFSV-A	Differential current supervision element (DIFSV) A-phase.
			Alm4	SPS	stVal	DIFSV-B	Differential current supervision element (DIFSV) B-phase.
			Alm5	SPS	stVal	DIFSV-C	Differential current supervision element (DIFSV) C-phase.