Energy Measuring Module
Model QE19UHW

Mitsubishi’s Programmable Controller
VIESEL-Q

User’s Manual
Hardware

Before using this module, please read this manual and carefully confirm full understanding to safely handle the module correctly.

Make sure that the end users read this manual and then keep the manual in a safe place for future reference.

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1. Application

1.1 What is Energy Measuring Module

Energy Measuring Module is a high-precision energy measuring module for measuring all types of energy and current. It can also measure power and frequency. The module is designed to comply with the EMC and Low Voltage Directives, and its CE mark is printed on the rating plate of the module.

1.2 Compliance with the EMC and Low Voltage Directives

The CE mark, indicating compliance with the EMC and Low Voltage Directives, is printed on the rating plate of the module. For the compliance of this module with the EMC and Low Voltage Directives, refer to Section 6.1 Wiring.

2. Precautions for Use

2.1 Precautions for Operation Environment and Conditions

This module is designed for operation in a dust-free environment and is not intended for operation in a dirty environment. The maximum ambient temperature should be within the range of 0 to 55°C. The maximum altitude should not exceed 2000 m.

2.2 Precautions for installation and Wiring

When installing the module, make sure to attach it to the base module securely. Do not force to attach the module; otherwise the module may break. The rating of the power supply is 100–240VAC 50/60Hz, and the output voltage is 24VDC. Be sure to connect the output wire of the module to the load side of the power supply.

3. Precautions for Start-up and Maintenance

3.1 Precautions for Startup and Maintenance

Before operating the product, check that active bare wire, etc. does not exist around the product. If any active bare wire is detected, stop operating the product immediately. Use a soft dry cloth to clean off dirt of the module surface.

3.2 Precautions concerning the preparation before use

Ensure the wiring to the module properly, checking the rated voltage and current of the product and the terminal assignment. If the input voltage exceed the rated voltage or the wiring is improper, it may cause a fire or a breakage.

3.3 Installation and Wiring Precautions

To configure a system meeting the requirements of the EMC and Low Voltage Directives when incorporating the voltage input terminals, voltage test. When stranded wire is used, twist the tip. Stripping length of the used wire in use has to be 5 to 6 mm. Check the stripping length using the strip gauge of the voltage input terminals.

4. Wiring of the module

4.1 Wiring Diagrams

The following wiring diagrams are provided. Be sure to refer to the wiring diagram and check the connections carefully before connecting the module to the voltage input terminals.

5. Sections

5.1 Introduction

This section describes the structure and specification of the module. It also describes the operation and setting of the module. Be sure to read this section before using the module.

5.2 Specifications

This section describes the specifications of the module.

5.3 Troubleshooting

This section describes the troubleshooting procedures for the module.

5.4 Dimensions and Weight

This section describes the dimensions and weight of the module.

5.5 Compliance and Declaration

This section describes the compliance and declaration of the module.

5.6 Service

This section describes the service procedures for the module.

5.7 Service

This section describes the service procedures for the module.

5.8 Warranty

The charge-free warranty period for the product shall be 1 year from the date of your purchase or the date the product is delivered to your specified address. The warranty shall be in effect for 1 year from the date of purchase or 18 months from the date of manufacture, whichever is earlier.

The purchaser shall be responsible for any damage or loss resulting from the use of the product.

For the detailed specifications and operation, refer to the user’s manual (Details) for more detail.