Energy Measuring Unit Extension for Pulse Input
Energy Measuring Unit Extension for Analog Input
Model EMU4-AX4 / EMU4-A2X

User’s Manual (Digest)

Before using this unit, please read both this manual and Details carefully and pay attention to safety to handle this unit correctly.

1. Features

1.1 Pulse Input Unit

This unit is an optional device dedicated to Energy Measuring Unit (EcoMonitorPlus).

1.2 Analog Input Unit

This unit is an optional device dedicated to Energy Measuring Unit (EcoMonitorPlus).

Before using this unit, please read both this manual and Details carefully and pay attention to safety to handle this unit correctly.

2. Installation Precautions

2.1 Precautions for Operating Environment and Conditions

This unit is premised on being used in pollution degree 2 environment. When used in higher pollution degree, protect this unit from pollution on another device side to be invested.

Over voltage category of measuring circuit in this unit is CAT III, and that of auxiliary power circuit (MA), CAT II by IEC.

Do not use this product in the places listed below. Failure to follow the instruction may cause malfunctions and a life decrease of product.

- Places exposed to direct sunlight
- Altitude exceeds 2000m.
- Places exposed to rain or water drop.
- Places the ambient temperature exceeds the range -5 - +55°C.
- Vibration and impact exceed the specifications.

This unit is premised on being used in pollution degree 2 environment. When used in higher pollution degree, protect this unit from pollution on another device side to be invested.

Caution

Places exposed to rain or water drop.

3. Maintenance Precautions

3.1 Installation and Wiring Precautions

When installing and wiring, follow the instruction. Failure to do so may cause electric shock or damage of this unit.

- Work under the electric outage condition when installing and wiring. Failure to do so may cause electric shock or damage of this unit.

4. Indication and Functions of LEDs

The names and operations of LEDs are as follows.

(1) LED Indications

Caution

Use the unit under normal ratings specified in this manual. In a stabilized range, it may cause no malfunction or break due to the surface

- Do not disassemble or modify this unit. It may cause failure, malfunction, injury or fire.
- Do not touch the part connected to control terminal. It may cause electric shock, electric burn injury or burn of the device. If any exposed conductor is found, stop the operation and seek an appropriate advice such as electric protection.

5. Connecting to Base unit

(1) How to check the version for basic unit

(2) Number of connectable Extension Unit

(3) Slide connection hooks (green colored) on the top and bottom of the Extension unit to lock the unit.

(4) Insert the connector (male) of the Extension unit into the connector (female) of the Base unit and slide both units until locked.

(5) Power supply connection line (green colored) to the terminal 2 pin male in the extension unit.

(6) Turn on the Switch of the extension unit.

(7) Check the extension unit is operating correctly.

6. Troubleshooting of each part

(1) How to disassemble each part

(2) How to replace parts or accessories

(3) How to repair or replace parts or accessories

(4) How to connect or replace parts or accessories

(5) How to install or replace parts or accessories

(6) How to clean or replace parts or accessories

7. Disposal Precautions

When disposing of this unit, treat it as industrial waste.

3.3 Precautions for Use

When using Energy Measuring Unit analog Input Model (Model : EMU4-AX4) Energy Measuring Unit Pulse Input Model (Model : EMU4-PX4) with CC-link communication unitModel EMU4-CM(C) and base unit EMU4-HM1-B, EMU4-HM1-MB, EMU4-LG1-MB, number of connectable show in the tables below.

(1) Number of connectable Extension Unit

(2) How to check the version for basic unit