

# PME-1130

## 3-phase KW & KWH Energy Meter

NEW



### Features

- Small size with 100mm depth
- Panel cut 92 x 46 mm
- 1% Accuracy (Std. CT)
- Modbus RTU protocol over RS485

### Introduction

The PME-1130 is a 3-phase KW/ KWH energy meter for sub-metering applications, ranging from power distribution, small motor control to lighting load circuit. It measures KW and kwh values. The measurement data can be viewed directly from local display, and also can be transmitted through a RS-485 using the Modbus protocol.

### Specifications

#### Voltage & Current Measurement

- **Voltage** 80 ~ 350 V<sub>AC</sub>, 45 ~ 65 Hz
- **Current** 5 mA ~ 5 A

#### Overload Protection (Std. 5A CT)

- **Permanent Voltage** 1.2 x V<sub>in</sub>
- **Permanent Current** 2 x I<sub>in</sub>
- **Transient Voltage** 2 x V<sub>in</sub> (1 sec)
- **Transient Current** 20 x I<sub>in</sub> (1 sec)

#### Power Measurement (Total, Std. 5A CT)

- **Resolution** 1W (per phase)
- **Accuracy** 1% Full Scale

#### Energy Measurement (Total, Std. 5A CT)

- **Display Resolution** 0.1 kWh (Range from 0 to 9,999,999.9kWh)
- **Record Resolution** 0.01 kWh (Range from 0 to 9,999,999.99kWh)
- **kWh Accuracy** 1% with PF 0.5 ~ 1.0

#### Front Panel Interface

- **Display** 6 digit 7 segment LED
- **Indicators** 5 LED, pulse LED for calibration
- **Mode** Display and Setting
- **Setting** 3 Function Key, ID address, Baud Rate, PT Ratio, CT Ratio, Phase/Wire.

#### Communication Interface

- **Bus** RS-485, Photo Isolated
- **Protocol** Modbus/RTU (format: 8/N/1)
- **Baud Rate** 1200/2400/4800/9600
- **Meter ID** 0 ~ 254

#### Reliability

- **Communication** IEC61000-4-4 1kV
- **Surge Test** IEC61000-4-5 4kV
- **EFT Test** IEC61000-4-4 1kV

#### AC Insulation

- **Aux. Power** 4.0 kV
- **Current Input** 4.0 kV

#### Power Supply

- **AC 110V** 93 ~ 126 V<sub>AC</sub>
- **AC 220V** 187 ~ 253 V<sub>AC</sub>

#### Physical

- **Operating Temperature** -10 ~ 70°C (32 ~ 158°F)
- **Operating Humidity** 0 ~ 90% RH (Non-condensing)
- **Storage Humidity** 0 ~ 95% (Non-condensing)
- **Weight** 425g (Std. 5A CT)
- **Panel Cut** 92 x 46 mm
- **Dimensions (W x H x D)** 110 x 50 x 115 mm

### Ordering Information

- **PME-1130-AE** 3-phase KW & KWH Energy Meter