

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_{AC}, 45 ~ 65 Hz
- **Current** 5 mA ~ 5 A

Overload Protection (Std. 5A CT)

- **Permanent Voltage** 1.2 x V_{in}
- **Permanent Current** 2 x I_{in}
- **Transient Voltage** 2 x V_{in} (1 sec)
- **Transient Current** 20 x I_{in} (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_{AC}
- **AC 220V** 187 ~ 253 V_{AC}

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