

THREE PHASE ENERGY METER

PEC-EM3-ETH-CT SERIE

THREE PHASE ENERGY METER FOR **1A/5A**
CURRENT TRANSFORMERS MOD. PEC-EM3-ETH-5A

THREE PHASE ENERGY METER FOR **333MV**
CURRENT TRANSFORMERS MOD. PEC-EM3-ETH-333

THREE PHASE ENERGY METER FOR
ROGOWSKI PROBES MOD. PEC-EM3-ETH-RC



PEC-EM3-ETH-CT adds TCP-IP communication to the RS485 Modbus RTU already present on the instrument.

The **Master Gateway** functionality can be activated from the instrument (up to 3 simultaneous clients) in this mode: multiple instruments can be connected via RS485 to the Energy Meter PEC-EM3-ETH and then interrogated via TCP-IP.

Network settings are easily set from the display.

PEC-EM3-CT / PEC-EM3-ETH-CT

The unit can monitor and display the following parameters of a single phase two wire(1P2W), three phase three wire(3P3W) or three phase four wire(3P4W) system.

MEASURED PARAMETERS

VOLTAGE AND CURRENT

Phase to neutral voltages 30 to 300V a.c. (not for 3P3W supplies).
Voltages between phases 30 to 500V a.c. (3P3W supplies only).
Percentage total voltage harmonic distortion(THD%) for each phase to neutral (not for 3P3W supplies).
Percentage voltage THD% between phases (3P3W supplies only).
Current THD% for each phase.
Power factor and Frequency and Max. Demand
Frequency in Hz

POWER MEASUREMENT

Active power/Reactive power/Apparent power
Maximum demanded power since last demand reset
Maximum neutral demand current, since the last demand reset

ENERGY MEASUREMENT

Import/Export active energy and reactive energy
Total active energy/Total reactive energy

MEASURED INPUTS

Voltage inputs through 4-way fixed connector with 2.5mm² stranded wire capacity. Single phase two wire(1P2W), three phase three wire(3P3W) or three phase four wire (3P4W) unbalanced. Line frequency measured from L1, L2 and L3 voltage.
Three current inputs (six physical terminals) with 2.5mm² stranded wire capacity for connection of external CTs.

SERIAL CONNECTION

PEC-EM3-CT version: RS485 Modbus RTU up to 38400 Baud.
PEC-EM3-ETH-CT version: RS485 Modbus RTU and RJ45 Modbus TCP-IP (configurable gateway function) up to 3 clients.

MECHANICS

DIN rail dimensions 72 x 100 x 66 mm (W X H X D)
Mounting: DIN rail (DIN 43880)
Sealing: IP51 (indoor)
Material: Self-extinguishing UI94 V-0