

THREE PHASE ENERGY METERS

DIRECT INSERTION THREE PHASE ENERGY METERS

ENERGY METERS FOR CURRENT TRANSFORMERS: 1/5A - 333mV - ROGOWSKI COILS

MOD. PEC-EM3

DIFFERENT VERSIONS AVAILABLE	
Primary Current selectable range: 1-9999A	
PEC-EM3-5A / PEC-EM3-ETH-5A	for CTs secondary **1A/5A**. Measurement range: 0,003 to 6 A. Ib (Base Current)= 5A Overload: 120A per 0,5 sec.
PEC-EM3-333 / PEC-EM3-ETH-333	for CTs secondary **333mV** Impedance: >1 Mohm
PEC-EM3-RC / PEC-EM3-ETH-RC	for **Rogowski coils** da 50/85/100mV/kA selectable Measurement range: from 5 to 5000 A (referred to 100mV/kA version) Impedance: >1 Mohm
PEC-EM3-100A	Direct connection up to 100 A

MAIN FEATURES	
DIMENSIONS AND MOUNTING	4 Din Rail with backlit display. 72x100x66 (L x H x D)
POWER SUPPLY	80 ~ 300 Vac / 100 ~ 420 Vdc (24Vdc on demand) Frequency 45 ~ 65 Hz Absorption < 4VA/0.5W
ACTIVE ENERGY ACCURACY CLASS	Active Energy Class 0,5S referred to IEC62053-22
VOLTAGE MEASUREMENT RANGE	30 - 300 Vac (LN), 30 - 500 Vac (LL)
CTS SECONDARY INPUT	Versions available with direct insertion up to 100A, secondary current 1/5 A, secondary 333mV, Rogowski probes
THD MEASUREMENT	Available for Current and Voltage channels
MAX DEMAND WITH RTC	Real-time clock with recording of value and date/time of maximum daily demand, previous days and previous months
WORKING TEMPERATURE	from -25°...+ 70°C (direct connection version +55°C max)
SERIAL PORT - COMMUNICATION	Modbus RTU version on RS485, baud rate up to 38400 / ETH version with Modbus RTU and Modbus TCP-IP (Gateway function)
DISPLAY	Backlit, programmable. Graphical display of load type Reactive (Capacitive/Inductive)
PULSE OUTPUT	Open collector impulse output, configurable weight and duration for Active and Reactive Energy. RS485 versions only.
SETTINGS	Via integrated capacitive keypad

AVAILABLE MEASUREMENTS	
VOLTAGE AND CURRENT CLASS 0,5 - IEC 61557-12	L-N Voltage from 30 to 300 Vac L-L Voltage from 30 to 500 Vac
FREQUENCY CLASS 0,2 - IEC 61557-12	Range 45-65Hz
POWER **ACTIVE:** CLASS 0,5 - IEC 61557-12 **REACTIVE:** CLASS 2 - IEC 61557-12	Active Power/ Reactive Power/ Apparent Power. Maximum power demand since the last demand reset.
ENERGY **ACTIVE:** CLASS 0,5S IEC 62053-22/ IEC 61557-12 **REACTIVE:** CLASS 2 - IEC 61557-12	Bidirectional measurement of active and reactive energy import/export. Total active energy/total reactive energy. Multi-tariff.

MASTER CHIPS

POWER FACTOR CLASS 1 - IEC 61557-12	For each phase and total.
HARMONIC DISTORTION CLASS 1 - IEC 61557-12	THD% for each Current and Voltage channels and Total
DATA REFRESH	1 second
SERIAL COMMUNICATION	RS485 Modbus RTU - Baud rate from 1200 to 38400 ETH Version: RS485 Modbus RTU - Baud rate da 1200 a 38400 and RJ45 Ethernet port with Modbus TCP-IP (Gateway function)

ENVIRONMENTAL INFO	
WORKING TEMPERATURE	-25°C ... +70°C (-25°C... + 55°C for PEC-EM3-100A)
STORAGE TEMPERATURE	-40°C ... +80°C
HUMIDITY	<90 % not condensing
ALTITUDE INSTALLATION	up to 2000 mt
IP PROTECTION	Frontal IP51 - Body IP 30 (under IEC 60529)
VIBRATIONS	10Hz -150Hz under IEC 60068-2-6
DIMENSIONS	72x100x66 mm - DIN Rail module - 4 Modules



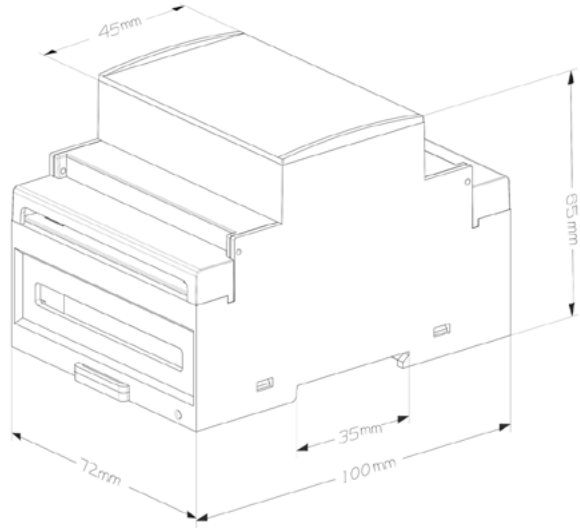
PEC-EM3-ETH-CT



PEC-EM3-CT



PEC-EM3-100A





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

