



PMC-660



Advanced

Power Quality Monitor

PMC-660 is the most cost-effective power quality monitoring solution for incomers and critical feeders for utilities, data centers, high-tech manufacturing facilities and heavy industries. The PMC-660 features quality construction with metal enclosure, easy-to-read LCD display, advanced power quality and revenue-accurate measurements, high-resolution waveform recording capabilities, comprehensive data logging, extensive I/O, dual RS-485 ports and optional Ethernet connection. The PMC-660 becomes a vital component of an intelligent Power Quality Monitoring System.



Feature Highlights

- ✓ True RMS Measurements @ 256 samples/cycle
- ✓ DIN 96 x 96
- ✓ Large, backlit, use-friendly LCD display
- ✓ IEC62053-22 Class 0.2S Compliant
- ✓ Dips, Swells and Transient events capture
- ✓ Waveform recording @ 256, 128, 64 or 32 samples/cycle
- ✓ Comprehensive PQ measurements
- ✓ Extensive logging capability with 4MB on-board memory
- ✓ Setpoint Alarm Features
- ✓ I4 monitoring
- ✓ Calculated Residual Current Ir
- ✓ Device Operating Time (Running Hours)
- ✓ Extensive Digital and Analogue I/O
- ✓ Tariff switching based on DI status
- ✓ Optically isolated RS-485 ports
- ✓ Optional Ethernet with RJ45 connection

Basic Measurements (1 second update)

- 3-phase Voltage, Current, Frequency, Phase Angle and Power
- Bi-directional energy Measurements
- Interval energy measurements with programmable period
- Neutral Current (I4) & Calculated Residual Current (Ir)
- Device Running Hours

Advanced Measurements

- Voltage and Current Unbalance, Symmetrical Components
- Voltage and Frequency Deviation
- THD, TOHD, TEHD, K-Factor and Displacement PF
- Individual Harmonics up to 31st on Front Panel and 63rd via communications
- Dips/Swells/Interruptions Detection and Transients Capture

TOU and Max. Demand

- Two TOU Schedules, each provides bidirectional energy measurements
- Facilitate Tariff switching by DI input
- Max. Demand measurements with demand synchronization

Data and Event Recorders (4MB on-board memory)

- 2 Waveform Recorders with a combined total of 32 entries
- 12 standard Data Recorder Logs
- 4 High-Speed Data Recorder Logs (1 to 60 cycles interval)
- Energy and Demand Log
- SOE Log with 512 entries time-stamped to $\pm 1\text{ms}$ resolution
- PQ Log up to 1000 entries
- Max./Min. Log with Timestamp

Setpoint Features

- 16 standard Setpoints and 8 High-Speed setpoints with configurable thresholds and time delays
- 6 Logical Modules supporting AND/OR/NAND/NOR operations
- Setpoint provides trigger output for various actions such as WF Recording, Data Recorder, DO, and Email Alarm

Digital and Analogue I/O

- Up to 6 DIs, Volt free dry contact, 24VDC internally wetted
- Up to 3 DOs, Form A mechanical relays for alarming and general purpose control
- Optional AI (0/4-20mA), DC input, Programmable zero and full scales
- Optional AO (0/4-20mA), DC output, Programmable zero and full scales

Communications

- Two RS-485 ports, optically isolated, baud rate from 1.2 to 38.4 kbps, support Modbus RTU protocol and DNP 3.0
- Optional 10/100BaseT Ethernet with RJ45 connection, support Modbus RTU over TCP/IP, Modbus TCP, Ethernet Gateway, HTTP, SMTP, SNTP

System Integration

- Supported by CET PecStar® iEMS and iEEM
- Easy integration into other Automation, SCADA or BMS systems via Modbus RTU, Modbus TCP protocols and DNP 3.0

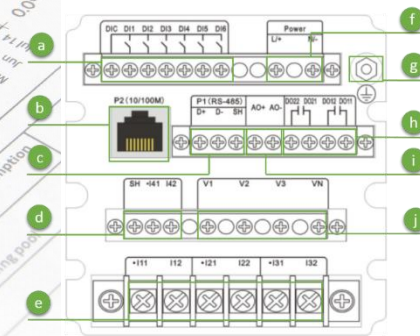
Accuracy

Parameters	Accuracy	Resolution
Voltage	$\pm 0.1\%$	0.001V
Current	$\pm 0.1\%$	0.001A
kW, kVA, kvar	$\pm 0.2\%$	0.001k
kWh	IEC62053-22: 2003 Class 0.2S	0.01kWh
kvarh	IEC62053-23: 2014 Class 2	0.01kvarh
PF	$\pm 0.2\%$	0.001
Frequency	$\pm 0.01\text{Hz}$	0.01Hz
Harmonics	IEC61000-4-7 Class A	0.01%
K-Factor	IEC61000-4-7 Class A	0.1
Phase Angle	$\pm 1^\circ$	0.1°
AI	$\pm 0.5\%$ F.S.	-
AO	$\pm 0.5\%$ F.S.	-

Appearance



- Enclosure
- Mounting Slide Bar
- LCD
- Front Panel
- LED Pulse Output
- Units
- Measurements
- Buttons

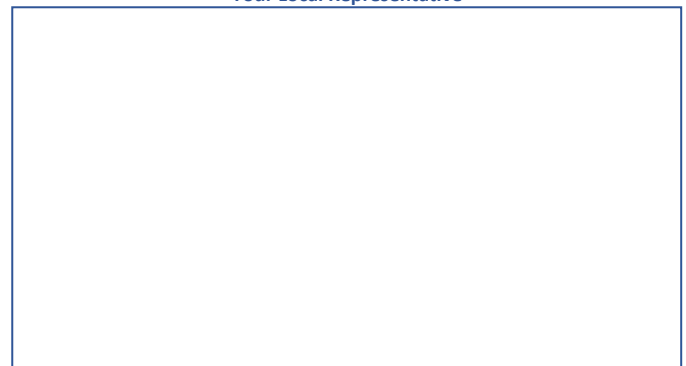


- Digital Input
- 10/100BaseT Ethernet Port
- RS-485
- I4 Input
- Current Input
- Power Supply
- Ground Terminal
- Digital Output
- Analog Output
- Voltage Input

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