





POWER QUALITY METER PREMIUM POWER & ENERGY

PQM 16

APPLICATIONS

Control & Relay Panel

Energy Management System

DG Set Panels

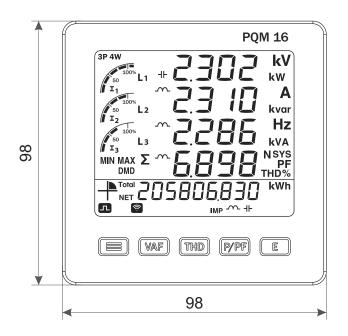
LT / HT Panel

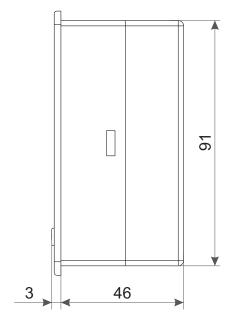
Power Control Center Panels

Motor Control Center Panels



Mechanical Dimensions Body Dimensions



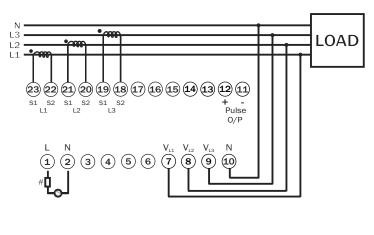


FRONT VIEW

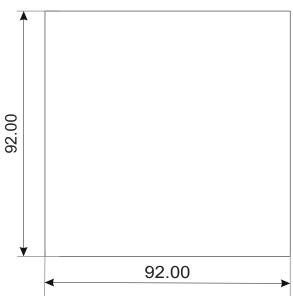
All dimensions are in mm

RIGHT SIDE VIEW

Connection Diagram



Panel Cutout





TECHNICAL DATA

Proper conclusion about energy consumption and power quality can only be made through measurements that extend beyond the feed point. To locate disturbances or energy wasters, data must be recorded at multiple points in the network, the granularity (resolution) of the measurement is key. The new PQM series is an ideal solution for this task. It is suitable for measuring and controlling electrical variables, energy consumption as well as monitoring the power quality parameters, such as harmonics. It is used in energy distribution systems, for example, to record cost centres and monitor thresholds.

Harmonics Measurement

- THD measurement For Voltage And Current, Up to 32 Harmonic.
- Individual Harmonics up to 32 order For Voltage.
- Individual Harmonics up to 32 order For Current.

Demand Measurement

- · For Active Power.
- For Apparent Power.
- Display Of Minimum and Maximum Values.

Complete Energy Measurement

- Import Active Energy.
- Export Active Energy.
- NET Active Energy.
- Total Active Energy.
- Total Apparent Energy.
- Import Reactive Energy.
- Export Reactive Energy.
- Lag & Lead Reactive Energy.
- Total Reactive Energy.



Voltage:- External 24V DC

Current Capacity :- 25mA
Pulse width :- 50 to 500ms

Meter Type

 $1\Phi 2W/3\Phi 4W/3\Phi 3W$ (Selectable)

Measurement Accuracy

Class 0.5

Output

Pulse Output (Optional)

| Input | | |
|----------------------|--|--|
| Voltage | | |
| Direct Voltage | 30 To 350V AC (L-N) 50 To 600V AC (L-L) | |
| Current | | |
| Secondary Current AC | 10mA to 5Amp AC | |
| Primary PT | 100V to 520KV | |
| Secondary PT | 100V to 520V | |
| Primary CT | Up to 9999A | |
| Secondary CT | By 5A/1A | |
| Voltage THD% | Upto 32 Level | |
| Current THD% | Upto 32 Level | |

| Environmental Characteristics | | |
|-------------------------------|-----------------------|--|
| Working Temperature | 0 to 55°C | |
| Storage Temperature | 0 to 55°C | |
| Relative Humidity | 95% RH Non-condensing | |
| Warm up time | 5 minutes | |

Sampling Rate 164 Sample / Cycle

Display & Keys

LCD with Backlight, 4 Row 9 Digit for Energy Display

Bargraph Representation for current

Key PRG, VAF, THD, P/PF, E

Auxiliary Power Supply

Power Supply 100 to 300V AC/DC

| Mechanical Characteristics | |
|----------------------------|------------------------------|
| Mounting Type | Panel Mount |
| Dimension (HxWxD) mm | 98 x 98 x 46 |
| Panel Cutout (HxW) mm | 92 x 92 |
| Material Body | Polycarbonate (PC) |
| Terminal Screw Size | M3 |
| Screw Torque (N.m) | 0.5 |
| Wire Guage (AWG) | 28-12 |
| Weight (Approx) gms | Unpacked: 225 Packed: 280 |
| Accessories | 1 Pair of Mounting Clamps |

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