



POWER QUALITY METER PREMIUM POWER & ENERGY

PQM 16

APPLICATIONS

Control & Relay Panel

Energy Management System

DG Set Panels

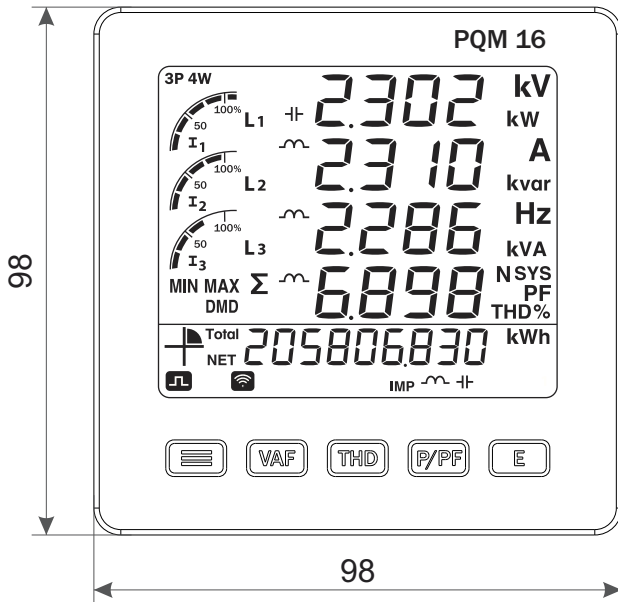
LT / HT Panel

Power Control Center Panels

Motor Control Center Panels

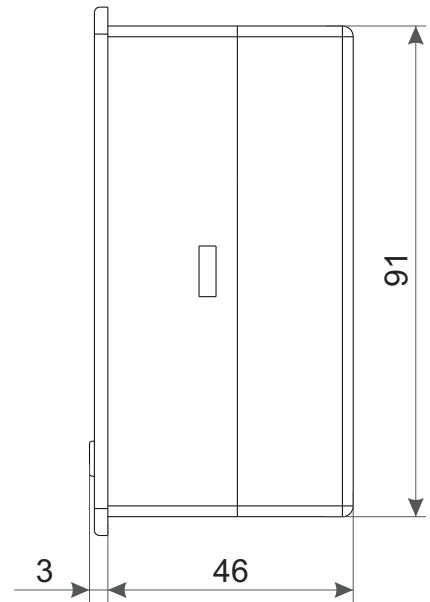
Mechanical Dimensions

Body Dimensions



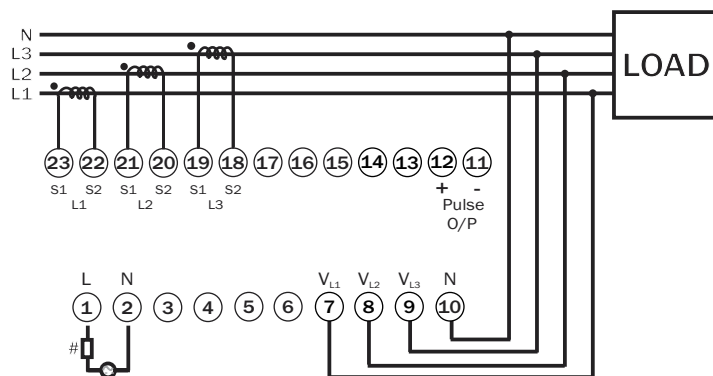
FRONT VIEW

All dimensions are in mm

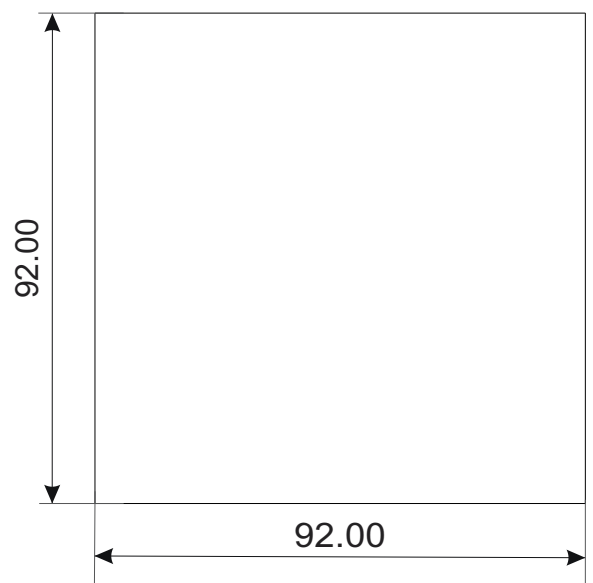


RIGHT SIDE VIEW

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.

Meter Type

1Φ 2W / 3Φ 4W / 3Φ 3W (Selectable)

Measurement Accuracy

Class 0.5

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

Output

Pulse Output (Optional)

Voltage :- External 24V DC
Current Capacity :- 25mA
Pulse width :- 50 to 500ms

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

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

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 Gauge (AWG)

28-12

Weight (Approx) gms

Unpacked : 225
Packed : 280

Accessories

1 Pair of Mounting Clamps