



POWER QUALITY METER PREMIUM POWER & ENERGY

PQM 16-M1

APPLICATIONS

Control & Relay Panel

Original Equipment

Manufacturers (OEMs)

Energy Management System

DG Set Panels

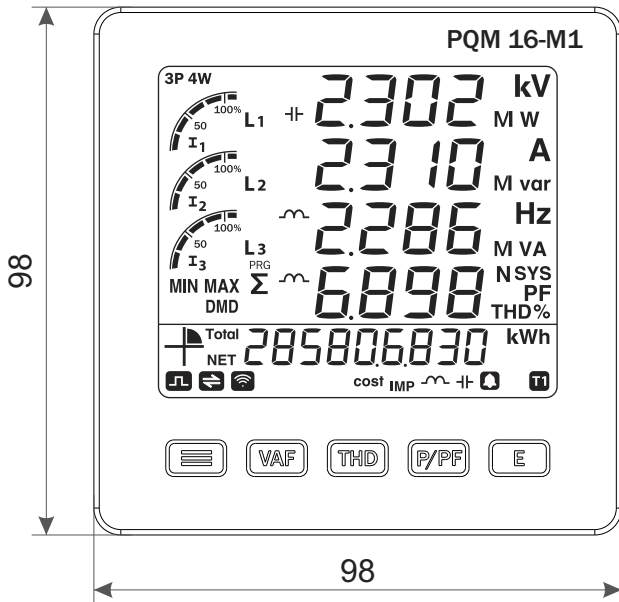
LT / HT Panel

Power Control Center Panels

Motor Control Center Panels

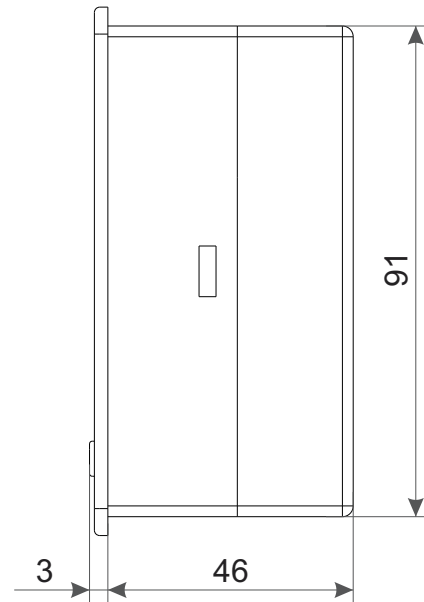
Mechanical Dimensions

Body Dimensions



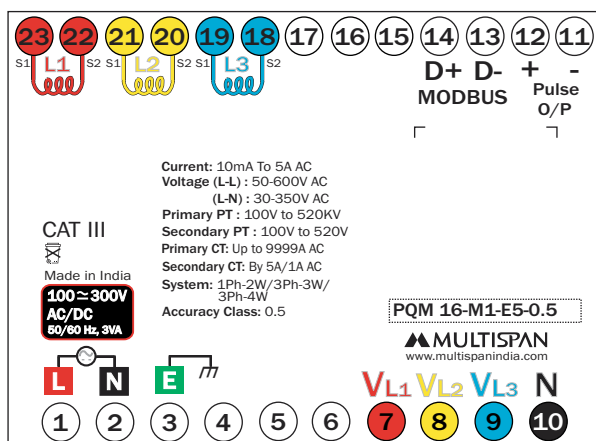
FRONT VIEW

All dimensions are in mm

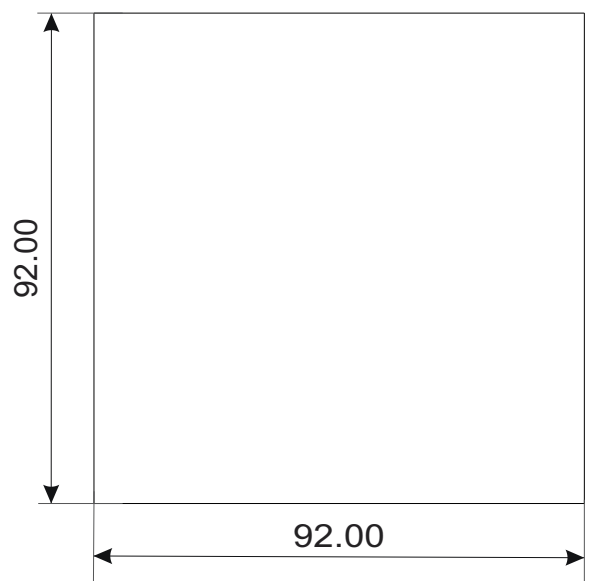


RIGHT SIDE VIEW

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

1 Φ 2W / 3 Φ 4W / 3 Φ 3W (Selectable)

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

Measurement Accuracy

For Active Energy 0.5

For Reactive Energy 0.5

Output

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

Communication Output RS-485 (Optional)

Interface RS-485

Baud Rate 2400, 4800, 9600,
19200,38400

Parity None, Odd, Even

Protocol Modbus - RTU

Transmission Distance 500 Meter Maximum

Communication address 1 to 125

Display & Keys

LCD with Backlight, 4 Row

8 Digit for Energy Display

Baragraph Representation for current

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

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

Auxiliary Power Supply

Power Supply 100 to 300V AC/DC ,
50/60Hz

Burden 3VA

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) 1

Wire Guage (AWG) 28-12

Weight (Approx) gms Unpacked : 225
Packed : 280

Accessories 1 Pair of Mounting Clamps