





POWER QUALITY METER PREMIUM POWER & ENERGY

PQM 16+ M1

APPLICATIONS

Control & Relay Panel

Original Equipment
Manufacturers (OEMs)

Energy Management System

DG Set Panels

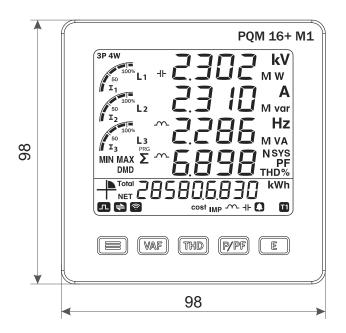
LT / HT Panel

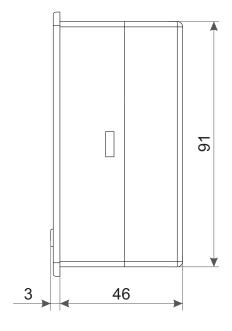
Power Control Center Panels

Motor Control Center Panels



Mechanical Dimensions Body Dimensions



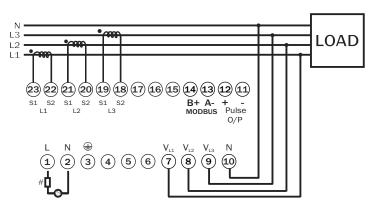


FRONT VIEW

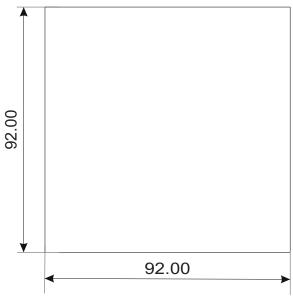
All dimensions are in mm

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.

Data Logging

30 Days for 43 Parameters @30 Minute Integration Period

Meter Type

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

Measurement Accuracy

Accuracy Class

Mounting Type

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	
Certification	Polic	

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

Bargraph Representation for current

Key PRG, 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	

Mechanical Characteristics

Panel Mount

Auxiliary Power Supply		
Power Supply	100 to 300V AC/DC , 50/60Hz	
Burden	3VA	

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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

Real Time Clock Displays Date & Time