Power Quality Meter

Functions and characteristics

Enersol Power Quality meter

Enersol Power Quality meters are easy-to-operate, compact in size, cost effective meters that offer Individual harmonics measurement capabilities, up to 20th, to analyze an electrical installation.

Characterized by their rugged construction, and low installation costs, these state-of-the-art Harmonic analyzes are ideal for Industrial power quality analysis where Harmonics are common due to LED Lights, Computers, CNC machines , Arc Furnace, ARC Furnace, Thyristor Based Load, VFDs, UPS, Inverter etc

The Enersol Power Quality meters are available in different versions to better fit specific applications:

- PQMR68 Series
- PQMR82 Series

Applications

- Power Quality monitoring operations.
- Load studies and circuit optimizations.
- Equipment monitoring and control.
- Preventative maintenance.
- Checking of Load Balance in Different Phases.
- Individual Harmonic Monitoring up to 13th on Display and up to 20th on Com Port (RS-485)

Energy savings

- Measure efficiency, reveal opportunities and verify savings.
- Sub-bill tenants for energy costs.
- Allocate energy costs to departments or processes.
- Reduce peak demand surcharges.
- Reduce power factor penalties.
- Leverage existing infrastructure capacity and avoid over-building.

Energy availability and reliability

Verify the reliable operation of equipment.

Improve response to power quality-related problems.

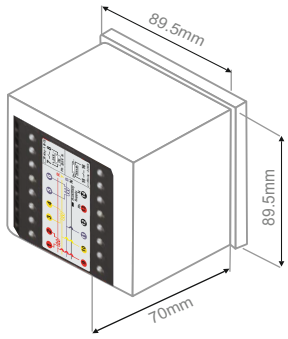
Main characteristics

Accurate metering

The meter conforms to accuracy class 1.0 / 0.5

Easy to read display

The bright, alphanumeric, 15mm high LED display provides 3 lines for measurement values with 4 digits per line. The display auto-scales for Kilo, Mega and Giga values. Auto scrolling mode allows for easy reading.



Enersol multifunction meter dimensions.

Quick and easy installation

Setup is done through the front panel keys.

Direct connection for metering voltage inputs up to 480 Vac L-L.

Colour - coded terminal board labeling

The colour - coded label on the terminal board helps ensure accurate wiring.

Secure settings

Safeguard access to setup parameters with unique password protection.

A keypad lock lets you display a user selected page by default.

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ENERSOL
SUSTAINABLE ENERGY SOLUTIONS

Selection guide		PQMR68	PQMR82	PQMRR82
General				(With2Relay O/P)
Use on LV and HV systems		■	■	■
Number of samples per cycle		50 at 50 Hz	50 at 50 Hz	50 at 50 Hz
Instantaneous rms values				
Current,	Total, Per phase & Neutral	■	■	■
Voltage,	Average, Phase to Neutral & Phase to Phase	■	■	■
Frequency,		■	■	■
Active power (W)	Total & per phase	* ■	■	■
Reactive power (VAr)	Total & per phase	—	■	■
Apparent power (VA)	Total & per phase	* ■	■	■
Power factor,	Average & per phase	■	■	■
Unbalance,	Current, voltage	■	■	■
Phase angle,	Between V & I, Ph1, Ph2, Ph3	—	■	■
RPM,	For generator only, speed calculated on generator voltage output and number of machine poles.	■	■	■
Energy & Demand values				
Active (Wh)		* ■	■	■
Reactive VARh)		—	■	■
Apparent energy (VAh)		* ■	■	■
Demand		—	□	□
Export / Import		—	—	—
Power quality measurements				
Total harmonic distortion %	Current, voltage, per phase	■	■	■
Individual Harmonics %	Up to 20th(on RS-485 Port) and up to 13th on display	■	■	■
Other measurements				
Run hours	Operating time for load in hours	■	■	■
ON hours	Operating time for meter in hours	■	■	■
INTR	Number of interrupts	■	■	■
Relay o/p (2 Relay program able on (V/A/F/PF/W/VA)				
Relay - 1			□	■
Relay - 2		—	□	■
Display				
LED display		■	■	■
Communication				
RS-485 port		■	■	■
Modbus protocol		■	■	■
Caliberation				
LED Pulse Output for Caliberation check		■	■	■

■ By Default □ Optional Features — Not Available

Ordering Selection * W/Va & Wh/Vah one will be selected programmable

	PQMR68	PQMR82	PQMRR82
Class 1.0 with RS 485	PQMR6810	PQMR8210	(With2Relay O/P) PQMRR8210
Class0.5 with RS 485	PQMR6805	PQMR8205	PQMRR8205