



Enersol multifunction meter

The Enersol Multifunction series power meters are easy-to-operate, compact in size, cost effective meters that offer the basic measurement capabilities required to monitor an electrical installation.

Characterized by their rugged construction, compact size, and low installation costs, these state-of-the-art multi-function meters are ideal for control panels, motor control centers and genset panels.

The Enersol Multifunction series power meter is available in five different versions to better fit specific applications:

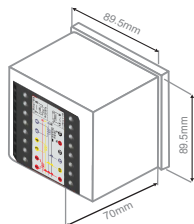
- ☞ MF09 Series
- ☞ MF28 Series
- ☞ MF42 Series
- ☞ MF48 Series

### Applications

- ☞ Power monitoring operations.
- ☞ Load studies and circuit optimisation.
- ☞ Equipment monitoring and control.
- ☞ Preventative maintenance.

### 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.



Enersol multifunction meter dimensions.

Selection guide	MF09	MF28	MF42	MFR42	MF48
<b>General</b>				(With2Relay O/P)	
Use on LV and HV systems	■	■	■	■	■
Accuracy of the meter	□	□	□	□	□
Number of samples per cycle	50 at 50 Hz	50 at 50 Hz	50 at 50 Hz	50 at 50 Hz	50 at 50 Hz
<b>Instantaneous rms values</b>					
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.	—	■	■	■	—
<b>Energy values</b>					
Active (Wh)	* ■	* ■	■	■	■
Reactive VARh)	—	—	■	■	■
Apparent energy (VAh)	* ■	* ■	■	■	■
Export / Import	—	—	—	—	■
<b>Power quality measurements</b>					
Total harmonic distortion % Current, voltage, per phase	—	■	■	■	■
<b>Other measurements</b>					
Run hours Operating time for load in hours	—	■	■	■	—
ON hours Operating time for meter in hours	—	—	■	■	—
INTR Number of interrupts	—	—	■	■	—
<b>Relay o/p (2 Relay program able on (V/A/F/PF/W/VA)</b>					
Relay - 1			□	■	
Relay - 2		—	□	■	—
<b>Display</b>					
LED display	■	■	■	■	■
<b>Communication</b>					
RS-485 port	—	□	□	□	□
Modbus protocol	—	□	□	□	□
<b>Calibration</b>					
LED Pulse Output for Calibration check	■	■	■	■	■

■ By Default □ Optional Features — Not Available  
 \* W/Va & Wh/Vah one will be selected programmable

Ordering Selection	MF09	MF28	MF42	MFR42	MF48
Class 1.0 without RS 485	MF - 0910	MF2810	MF4210	(With2Relay O/P)	MF4810
Class 1.0 with RS 485	MFR0910	MFR2810	MFR4210	MFR4210	MFR4810
Class0.5 without RS 485	MF - 0905	MF2805	MF4205		MF4805
Class0.5 with RS 485	MFR0905	MFR2805	MFR4205	MFR4205	MFR4805