



Multifunction power meter

MultiPower

The M850 MultiPower is a complete 3 phase digital universal metering system in a standard 96 x 96 mm DIN case. It can be used on any voltage system with wide range on inputs. The auxiliary supply is a universal supply for both AC & DC volts. The one unit covers the majority of application without any modification required, which makes M850 ideal for stocking.

Parameters Measured

- * Phase Voltage (V)
- * Phase to Neutral (V)
- * Phase Current (I)
- * Frequency (Hz)
- * Active Power (W)
- * Reactive Power (Var)
- * Apparent Power (VA)
- * Active Energy (W.h)
- * Reactive Energy Var.h)
- * Power Factor (P.F.)
- * Instantaneous Demand Amp
- * Instantaneous Demand Active Power
- * Instantaneous Demand Apparent Power
- * Maximum Demand Amps
- * Maximum Demand Active Power
- * Maximum Demand Apparent Power

Accuracy

Volts & Amps	0.5% of reading \pm 2 digits
Frequency	0.1Hz \pm 1 digit
Active Power	1% of reading \pm 2 digits
Reactive Power	1% of reading \pm 2 digits
Apparent Power	1 % of reading \pm 2 digits
Power Factor	1% of range

System Types

The M850-MP1 can be used on the following measuring systems without any changes apart from wiring configuration.

Single Phase,

Single Phase 3 wire

3 Phase 3 Wire Balanced Load

3 Phase 4 Wire Balanced Load

3 Phase 3 Wire Unbalanced Load

3 Phase 4 Wire Unbalanced Load

Memory

Current ratios, demand time periods and calibration data is stored in non volatile eeprom memory. In power down (power loss) conditions this data is retained.

Controls & Programming

The four front control buttons are used for scrolling up or down through the parameters being measured and displayed. These buttons also allow programming of different Current and Voltage transformer ratios, Demand times, Baud rates etc.

Display

The unique blue LED display is designed to be read in a variety of conditions including bright sunlight, wide viewing angle, long distance. There are 8 levels of user adjustable brightness.

Plug in options

Both the RS485 option and pulsed output options are versatile plug in units that can be purchased with the MultiPower meter or can be retrofitted when required.



Communications

The MultiPower has the plug in option of RS485 communications. The RS485 enables remote reading of up to 32 MultiPowers on a 2 wire bus using the Modbus protocol.

The Modbus protocol allows the MultiPower to be used with PC, PLC, RTU, Data loggers and Scada programs.

Pulsed Output

An option of a plug in pulsed output via a relay is offered. The pulsed output can be assigned to W.h, and VAR.h

**Unused Voltage terminals are internally connected
Secondary of CTs must be connected to earth**

