

Single/Dual Source Energy Meter

DESCRIPTION

Powertrac provides a wide variety of energy management & monitoring devices. The provision of Dual Register makes it suitable for the growing demand of Dual Source Meter .

The option of current limiting in DG Mode and AC / DC sensing mode of DG makes it one of the most preferable meters in the country .

SPECIAL FEATURES

- ✦ Rs232 / RS485 MODBUS Communication
- ✦ V & I based kWh metering
- ✦ Single and Dual Source
- ✦ CT Operated Panel Mounted, Wall Mounted option
- ✦ Whole Current Wall Mounted Option
- ✦ On Site Current limiting features
- ✦ Optional Latching Relay provision to cut off the load directly without use of any contactor
- ✦ Flashing LED for on site Calibration



kWh Meter PG-EM4



3 Phase Dual Source Meter

SPECIAL FEATURES

- ✦ Building Control Panels.
- ✦ DG Control Panels.
- ✦ Building Management & Revenue System.
- ✦ Energy Management and Control Systems.
- ✦ Apartment and Societies .

Technical Specifications

ELECTRICAL CHARACTERISTICS

Type of measurement	: True RMS at 50 Hz
Current and voltage	: Class - 1.0
Active Power	: Class - 1.0 / Class - 0.5 accuracy
Reactive Power	: Class - 2.0 / Class - 1.0 accuracy
Apparent Power	: Class - 1.0 / Class - 0.5 accuracy
Frequency	: Class - 0.2 / Class - 0.1 accuracy
Power factor	: Class - 1.0
Active Energy	: Class - 1.0 / Class - 0.5 accuracy
Reactive Energy	: Class - 2.0 / Class - 1.0 accuracy
Apparent Energy	: Class - 1.0 / Class - 0.5 accuracy
Demand Energy	: 30 Min. Integration period

* Additional error for meter input current below 100 mA

Data update rate	: 1 sec
Input Voltage	: V1, V2, V3, Vn
Measured voltage	: 80 - 480 V AC L-L without PTs Up to 999 kV with external Pts
Permissible overload	: 1.10 Un (480 V L-L)
Burden	: As per IS
Impedance	: As per IS
Frequency range	: 50Hz ± 5%
Primary CT	: 1 A - 99.0 kA
Secondary CT	: 1 A - 5 A
Measurement range	: 40 mA - 6 A
Permissible overload	: 6 A continuous
Burden	: As per IS
Impedance	: As per IS
AC Power Supply	: 100 - 277 V AC at 50 Hz
DC Power Supply	: 100 - 277 V DC

MECHANICAL CHARACTERISTICS

Weight	: 0.500kg to 0.250kg (Shipping)
IP degree of protection	: Front: IP 51; Back: IP 40
Dimensions	: Bezel: 96 x 96 mm Depth: 65 mm behind bezel Panel cutout: 92 x 92 mm

ENVIRONMENTAL CONDITIONS

Operating temperature	: 4°C to 60°C
Storage temperature	: 4°C to 70°C
Humidity rating	: 5 to 60 % RH non-condensing

COMMUNICATION

RS-485 port	: 2 terminals only Baud rate : 9600bps Protocols: Modbus
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ELECTROMAGNETIC COMPATIBILITY

Electrostatic discharge	: IEC 61000-4-2
Immunity to electromagnetic	: IEC 61000-4-3
RF fields	
Immunity to electrical fast transients	: IEC 61000-4-4
Immunity to surge waves	: IEC 61000-4-5
Impulse voltage withstand capability	: 6kV for 1.2/50 μS per IS : 13779

DISPLAY CHARACTERISTICS

Integrated LED display	: View 3 parameters together on 3 line, 4 digits per line display. Auto-scaling capability for Kilo, Mega values User-selectable default display page. Password protection for setup parameters.
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Note : Due to continuous improvements in all products the specifications might vary.

Powertrac Meters Pvt. Ltd.

Reg. Office : 92/252, Gokhle marg, Shipra path, Agrwal farm, Mansarover, Jaipur-302020
 Works :- 127-128, MIA, MADRI, Udaipur, Rajasthan, 313004
 email :- powertracjaipur@gmail.com, Visit us : www.powertracindia.com