



Product Features

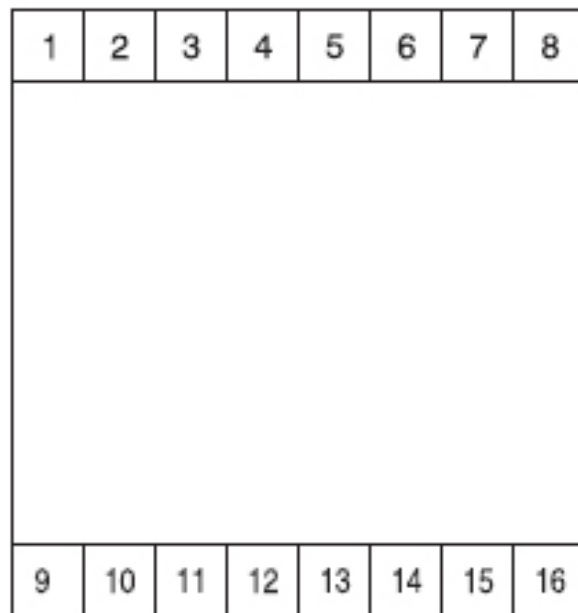
- Accuracy Class1.0 / (Class 0.5 calibration on Request).
- CT Pri/Sec Programmable.
- Digital Measurement.
- IEC Compliance.
- RS 485 port available.
- Flush / Panel Mounting .
- 96 x 96 mm DIN Mounting.
- Auto Scroll / Hold Facility.

Specifications

Modelc	EMS-01
Rated voltage (Aux. Supply) c	85 to 270 V AC / DC
Rated Frequency	50 / 60Hz \pm 5% for AC only
Power consumption	< 5 VA / 1W
Input voltage	3 Phase 4 wire (R,Y,B,N) Range - 415 VAC (-40% to +20%) 110 VAC (-40% to +20%)
Input current	Current inputs (AR, AY, AB) 1A to 5A (to 200%)
Input Frequency	50 Hz, \pm 2%
Burden	< 0.2 VA per Volts/Amps input
Accuracy	Class 1 / Class 0.5
Recovery Time	2 sec minimum.
Communication	RS-485 MODBUS RTU Protocol
Meter Constant	3200 Pulses / KWh 3200 pulses / KVArh
CT Ratio Selectable	Primary 1 to 5000A max. Secondary 1 to 5A.
PT Ratio Selectable	PT Ratio Selectable
Device ID	1 - 247
Baud rate	2400, 4800, 9600,19200bps
Pulse Output	Active Energy / Reactive Energy
Poles	1-28
Protection of configuration settings	User settable Password Ranging from 0001 to 9999
Ambient Temperature	Operation c -10°C to + 55°C(14°F to 131°F) Storage c -25°C to + 80°C(-13°F to 176°F)
Humidity	Up to 95% RH @ 40°C
Insulation resistance	>100M ohms @ 500V DC
Dielectric strength	2.5 KV AC, 50Hz for 1 minute (Between current carrying & non-current carrying parts)
Electrical connection	Screw type terminals with self lifting clamps.
Dimension	96 X 96 X 117 mm (W X H X D)

Connections

EMS-01



1 : R Phase

2 : Y Phase

3 : B Phase

4 : Neutral

7 & 8 : A, B

(RS 485 Communication port)

9, 10 : S1, S2 - R Phase

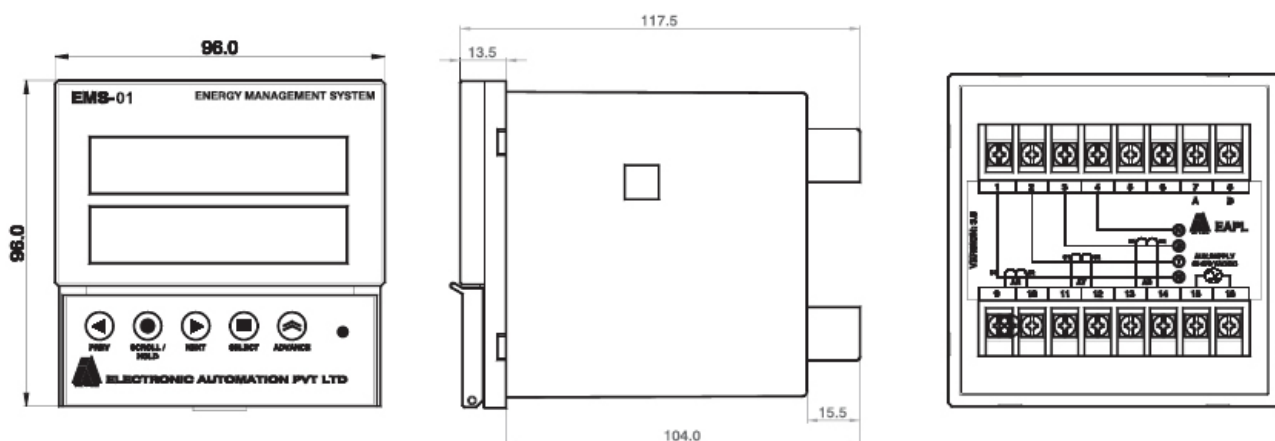
11, 12 : S1, S2 - Y Phase

13, 14 : S1, S2 - B Phase

15, 16 : Source

Dimensions

EMS-01



Accessories

Panel locking side anchors - 2 Nos

Hints On Correct Use

All connection screws should be tightened properly for accurate readings. Ensure phase CTs are connected to the respective phase CT terminals in the meter.

Caution

- If the input source voltage shoots beyond specified voltage range the unit will be damaged beyond repairs. Suitable protection for incoming voltage is recommended.
 - Use 2.5mm² U-type lugs with sleeve
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