



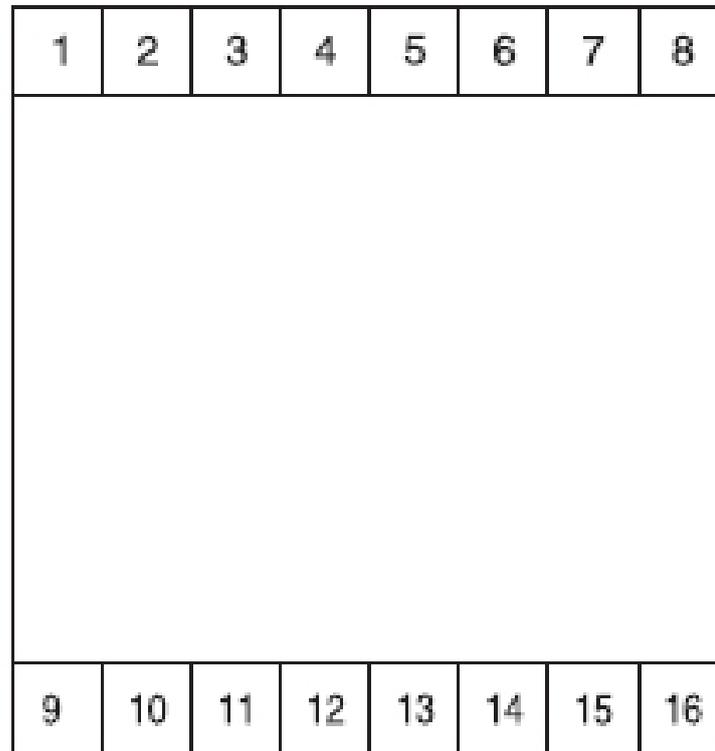
## Product Features

- 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

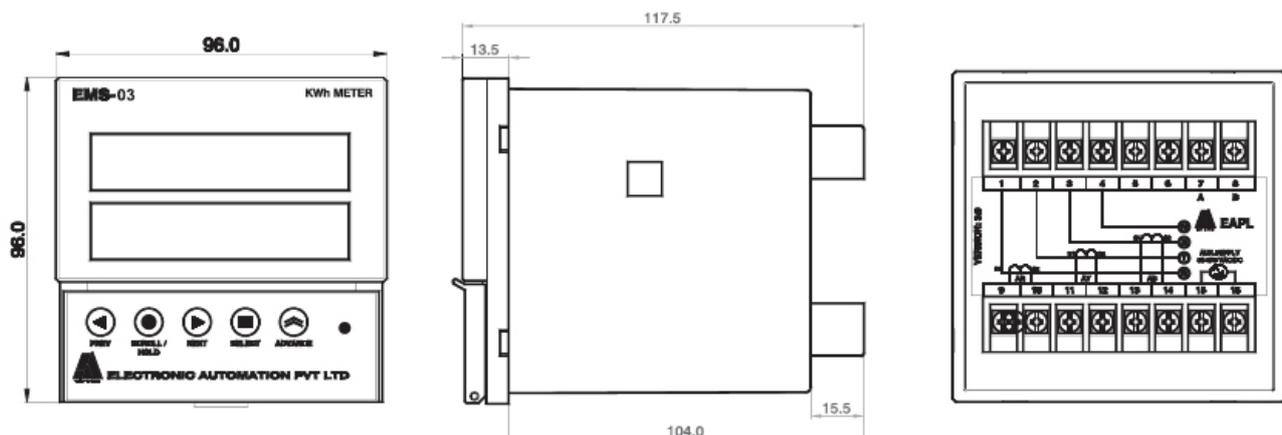
Model	EMS-03	EMS-09	EMS-10
Function c	Kilo Watt Hour Meter		
Rated voltage (Aux. Supply) c	85 to 270 V AC / DC		
Rated frequency (Aux. Supply) c	50 / 60 Hz +/- 5% for AC only		
Power consumption c	< 5 VA / 1W		
Input Supply			
Input voltage c	Range -3 Phase 4 wire (R,Y,B,N ) 415 VAC (-40% to +20%) 110 VAC (-40% to +20%)		
Input current c	Current inputs (AR, AY, AB) 1A to 5A (to 200%)		
Input Frequency c	50 Hz, ± 2%		
Burden c	< 0.2 VA per Volts/Amps input		
Accuracy c	Class I / Class 0.5		
Recovery Time c	2 sec minimum		
Communication c	RS-485 MODBUS RTU Protocol		
Meter Constant c	3200 Pulses / KWh		3200 Pulses / KWh 3200 pulses / KVARh
CT Ratio Selectable c	Primary 1 to 5000Amp max. Secondary 1 to 5A.		
PT Ratio Selectable c	Primary 110 to 999KV Secondary 110 to 500V		
Device ID c	1 - 247		
Baud rate c	2400, 4800, 9600,19200bps		
Protection of configuration settings c	User settable Password Ranging from 0001 to 9999		
Ambient Temperature c	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 c	Up to 95% RH @ 40°C		
Insulation resistance c	>100M ohms @ 500V DC		
Dielectric strength c	2.5 KV AC, 50Hz for 1 minute (Between current carrying & non-current carrying parts)		
Electrical connection c	Screw type terminals with self lifting clamps.		
Dimension c	96 X 96 X 117 mm (W X H X D)		

## EMS-03, EMS-09, EMS-10



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|-------|-----------|--------|--------------------|
| 1     | : R Phase | 9, 10  | : S1, S2 - R Phase |
| 2     | : Y Phase | 11, 12 | : S1, S2 - Y Phase |
| 3     | : B Phase | 13, 14 | : S1, S2 - B Phase |
| 4     | : Neutral | 15, 16 | : Source           |
| 7 & 8 | : A, B    |        |                    |
- (RS 485 Communication port)

## Dimensions



## 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 2.5mm<sup>2</sup> U-type lugs with sleeve.
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