



## Product Features

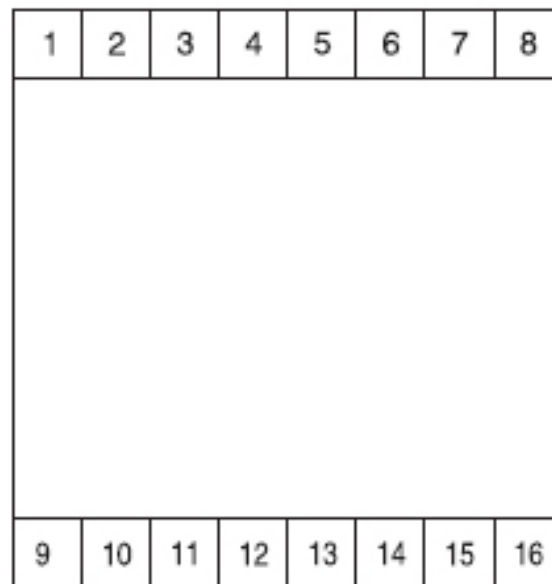
- Accuracy Class1.0 / (Class 0.5 calibration on Request).
- CT Pri/Sec Programmable.
- Digital Measurement.
- IEC Compliance.
- RS 485 port available.
- Flush / Panel Mounting .
- 96 x 96 mm DIN Mounting.
- Auto Scroll / Hold Facility.

## Specifications

Model	EMS-17
Rated voltage (Aux. Supply) c	85 V to 270 V AC / DC
Rated frequency (Aux. Supply) c	50 / 60 Hz +/- 5% for AC only
Power consumption c	< 5 VA / 1W
Generator Sensing Voltage c	12V AC/DC to 240V DC / 220V AC
Input voltage c	3 Phase 4 wire (R,Y,B,N ) Range - 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 1 / Class 0.5
Recovery Time c	2 Sec minimum.
Communication c	RS-485 MODBUS RTU Protocol
Meter Constant c	3200 Pulses / KWh
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 , 19200 bps
Poles c	1 28
Protection of Configuration settings c	User settable Password Range 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 (Over all) c	96 X 96 X 117 mm (W X H X D)
Dimension (Cut out) c	92 x 92mm (W x H)

## Connections

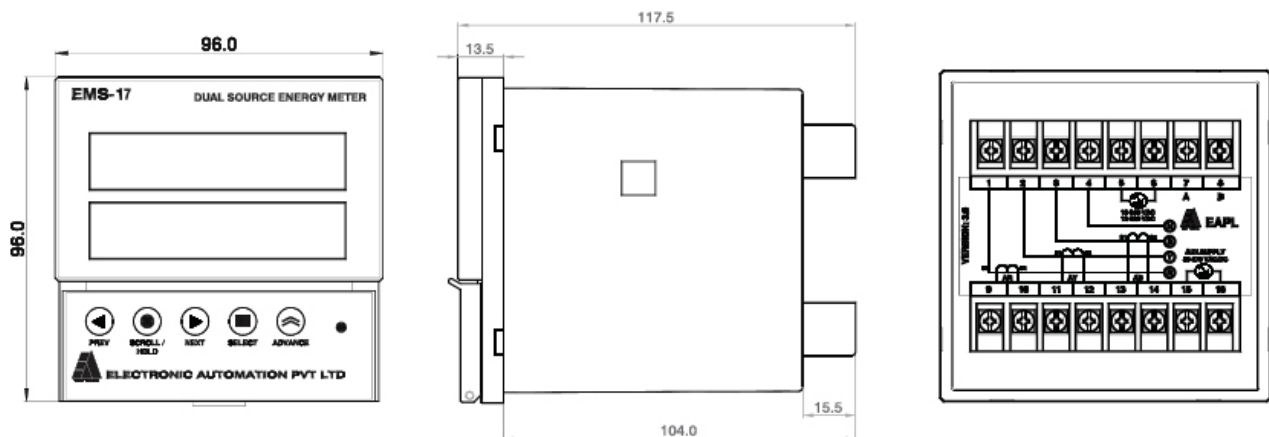
### EMS-17



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|---|---|
| 1 : R Phase   | 7 & 8 : A, B<br>(RS 485 Communication port) |
| 2 : Y Phase   | 9, 10 : S1, S2 - R Phase                    |
| 3 : B Phase   | 11, 12 : S1, S2 - Y Phase                   |
| 4 : Neutral   | 13, 14 : S1, S2 - B Phase                   |
| 5, 6 : Source identification supply<br>(12V - 240V AC / 12V - 220VDC) | 15, 16 : Source                             |

## Dimensions

EMS-17



## 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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