



3 PHASE ENERGY & POWER METER

EPM-14-M1

APPLICATIONS

Electrical Control Panel

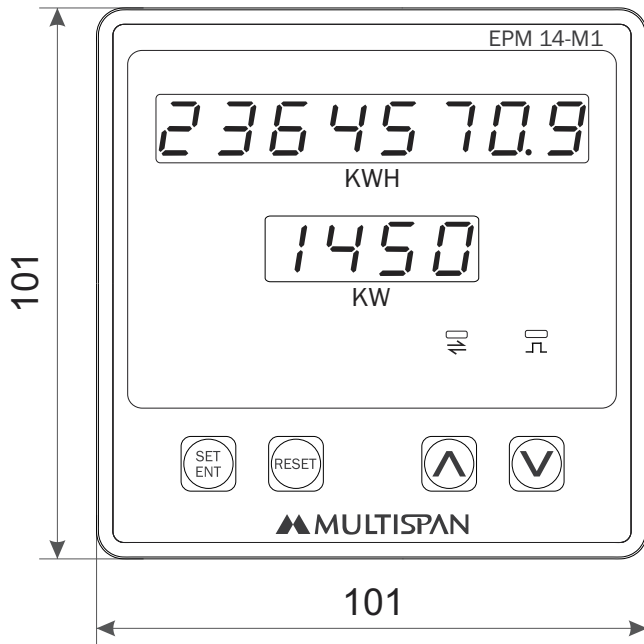
Power Distribution

Instrumentation Panel

Transformer Training

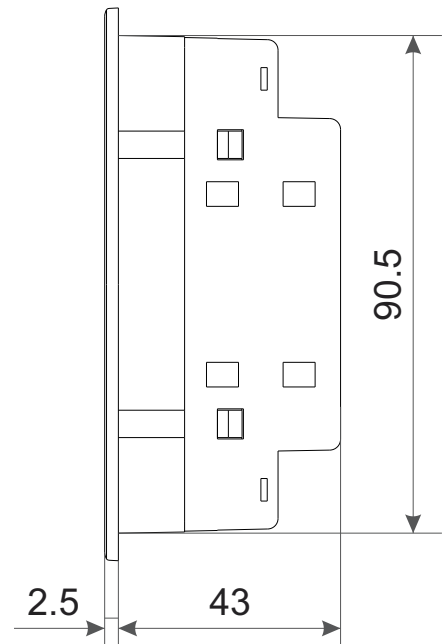
Mechanical Dimensions

Body Dimensions



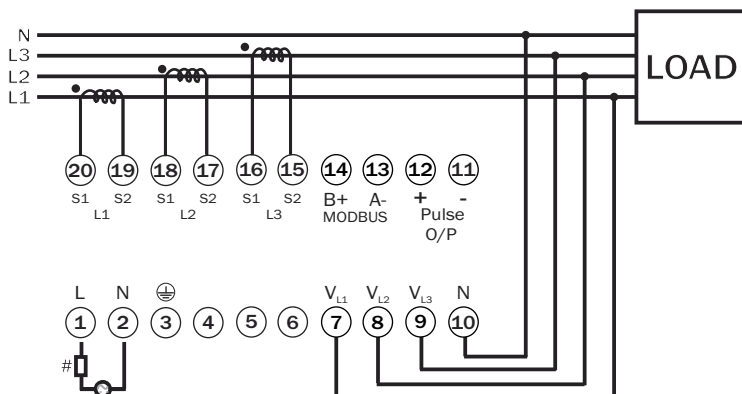
FRONT VIEW

All dimensions are in mm

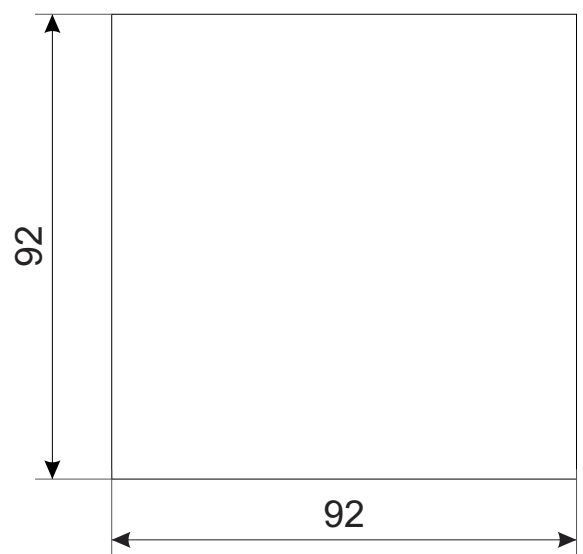


RIGHT SIDE VIEW

Connection Diagram



Panel Cutout



TECHNICAL DATA

Input	Voltage	3 Ø 4 Wire 30 To 300V AC (L- N) 50 To 520V AC (L- L)
	Current	50mA To 5A AC
Specification	kW	0.000 To 9999 kW
Measuring Range		0 to 999999999 kWh (Active energy)
Accuracy		Class 1.0
Power Supply		100 To 270V AC/DC, 50/60Hz, Approx 4VA
Certificate		CE UK CA

Meter Type
3Ø - 4W

Input	
Voltage	
Voltage	30 To 300V (L-N) 50 To 520V (L-L)
Burden	<0.2 VA
Current	
Secondary Current	5A (Factory set)
Burden	<0.2 VA
CT Primary	5 To 6000 Programmable
Starting Current	50mA

Display	
Display	UPPER: 7 Seg, 8digit,0.39", RED LED display for kWh LOWER: 7 Seg, 4digit,0.39", GREEN LED display for kW
Key	SET/ENT,RESET, INC,DEC

Accuracy
Class 1.0

Output	
Pulse Output	Voltage :- External 24V DC Current Capacity :- 25mA Pulse width - 50 to 500ms
Communication Output RS-485	
Interface	RS-485
Baud Rate	2400, 4800, 9600, 19200,38400
Parity	None, Odd, Even
Protocol	Modbus - RTU
Transmission Distance	500 Meter Maximum
Communication address	1 to 125

Calculated Parameters	
Power	Active Power (kW) Total
Energy	Active Energy (kWh)

Auxiliary Power Supply	
Power Supply	100 To 270V AC/DC, 50/60Hz
Consumption	4VA

Environmental Characteristics

Working Temperature	0 to 55 °C
Storage Temperature	0 to 55 °C
Relative Humidity	95% RH Non-condensing
Warm up time	5 minutes

Mechanical Characteristics

Mounting Type	Panel Mount
Dimension (HxWxD) mm	101 x 101 x 43
Panel Cutout (HxW) mm	92 x 92
Material	Front Enclosure
	Polycarbonate (PC) ABS
Terminal Screw Size	M3.5
Screw Torque (N.m)	0.5
Wire Gauge (AWG)	26-14
Weight (Approx) gms	Unpacked : 260 Packed : 290
Accessories	1 Pair of Mounting Clamps