



# MULTIFUNCTION METER PREMIUM POWER & ENERGY

AVH 16

## APPLICATIONS

Energy Management System

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DG Set Panels

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LT / HT Panel

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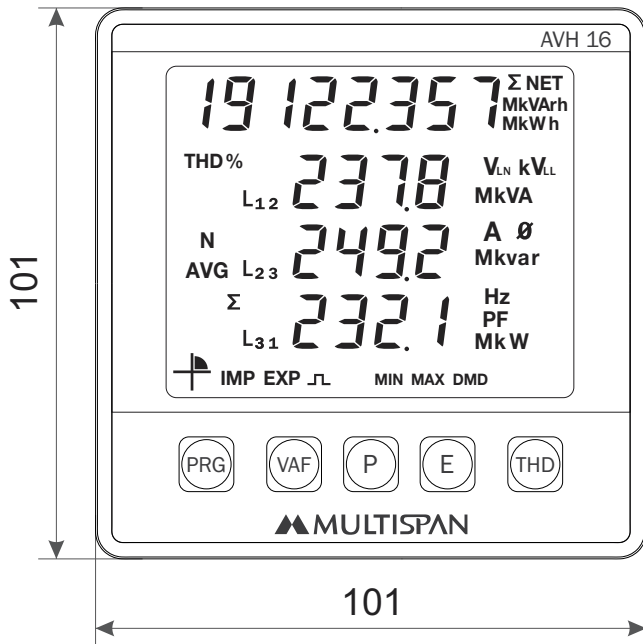
Power Control Center Panels

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Motor Control Center Panels

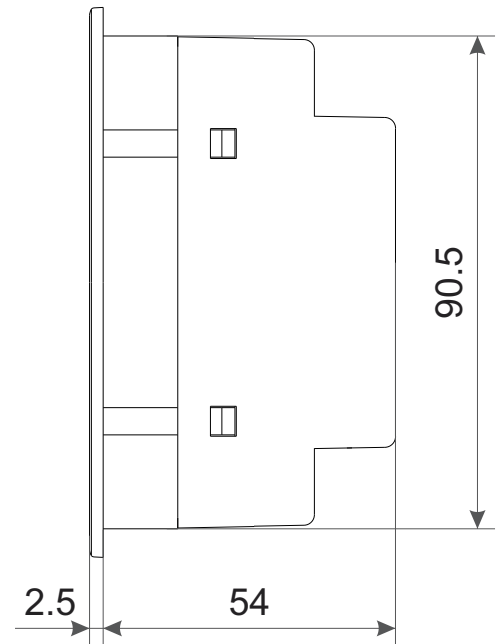
# Mechanical Dimensions

## Body Dimensions



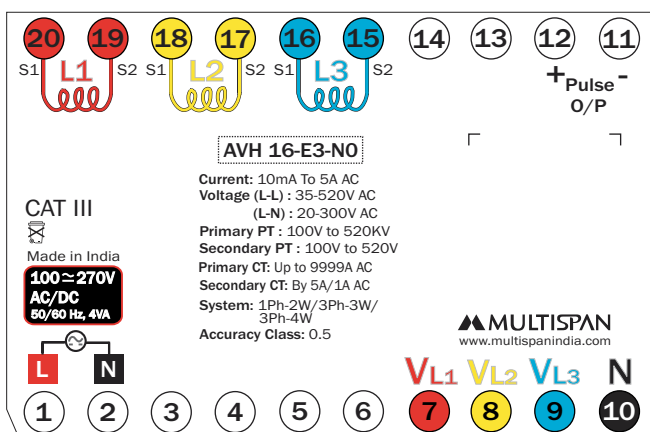
**FRONT VIEW**

All dimensions are in mm

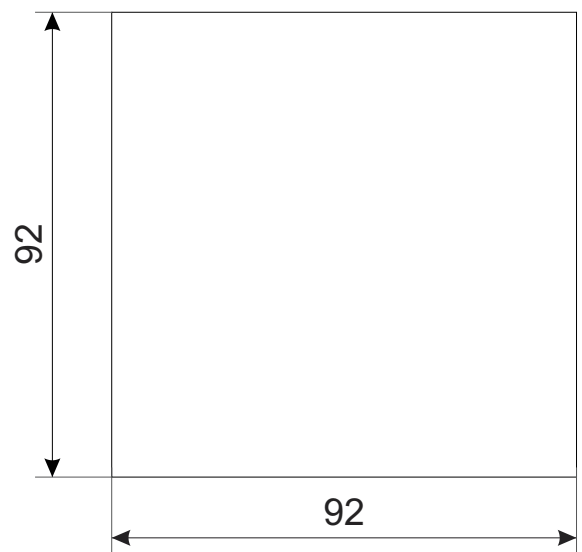


**RIGHT SIDE VIEW**

## Connection Diagram



## Panel Cutout



Proper conclusion about energy consumption and power quality can only be made through measurements that extend beyond the feed point. To locate disturbances or energy wasters, data must be recorded at multiple points in the network, the granularity (resolution) of the measurement is key. The new AVH series is an ideal solution for this task. It is suitable for measuring and controlling electrical variables, energy consumption as well as monitoring the power quality parameters, such as harmonics. It is used in energy distribution systems, for example, to record cost centres and monitor thresholds.

### Harmonics Measurement

- THD measurement For Voltage And Current, Up to 32 Harmonic.
- Individual Harmonics up to 32 order For Voltage.
- Individual Harmonics up to 32 order For Current.

### Demand Measurement

- For Active Power.
- For Apparent Power.
- Display Of Minimum and Maximum Values.

### Complete Energy Measurement

- Import Active Energy.
- Export Active Energy.
- NET Active Energy.
- Total Active Energy.
- Total Apparent Energy.
- Import Reactive Energy.
- Export Reactive Energy.
- Lag & Lead Reactive Energy.
- Total Reactive Energy.

Input	
<b>Voltage</b>	
<b>Direct Voltage</b>	20 To 300V AC ( L-N ) 35 TO 520V AC ( L-L )
<b>Current</b>	
<b>Secondary Current AC</b>	10mA to 5Amp AC
<b>Primary PT</b>	100V to 520KV
<b>Secondary PT</b>	100V to 520V
<b>Primary CT</b>	Up to 9999A
<b>Secondary CT</b>	By 5A/1A
<b>Voltage THD%</b>	Up to 32 Level
<b>Current THD%</b>	Up to 32 Level
<b>Sampling Rate</b>	164 Sample / Cycle

Meter type
1 $\Phi$ 2W / 3 $\Phi$ 4W / 3 $\Phi$ 3W ( Selectable )

Display, Keys & LED		
<b>Display</b>	Upper	8 Digit 1 Line 7 seg 0.4"
	Lower	4 Digit 3 Line 7 seg 0.4"
<b>Key</b>	PORG, VAF, P, E, & THD	

Measurement Accuracy	
<b>Accuracy</b>	Class 0.5

Output	
<b>Pulse Output</b>	Voltage :- External 24V DC Current Capacity :- 25mA Pulse width - 50 to 500ms

Auxiliary power supply	
<b>Power Supply</b>	100 to 270V AC/DC,50/60Hz
<b>Burden</b>	4VA
<b>Compliance for Isolation</b>	Between Power Supply and all Inputs is tested at 2KV for 1 minute

Environmental Characteristics	
<b>Working Temperature</b>	0 to 55 °C
<b>Storage Temperature</b>	0 to 55 °C
<b>Relative Humidity</b>	95% RH Non-condensing
<b>Warm up time</b>	5 minutes

Mechanical Characteristics	
<b>Mounting Type</b>	Panel Mount
<b>Dimension (HxWxD) mm</b>	101 x 101 x 54
<b>Panel Cutout (HxW) mm</b>	92 x 92
<b>Material</b>	Front Enclosure Polycarbonate (PC) ABS
<b>Terminal Screw Size</b>	M3.5
<b>Screw Torque (N.m)</b>	0.5
<b>Wire Gauge (AWG)</b>	26-14
<b>Weight (Approx) gms</b>	Unpacked : 282 Packed : 337
<b>Accessories</b>	1 Pair of Mounting Clamps