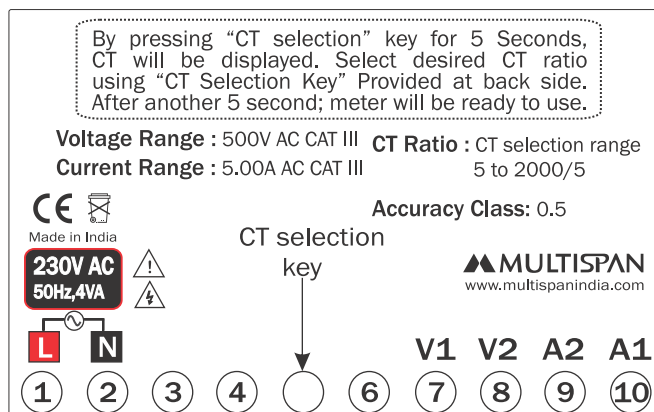




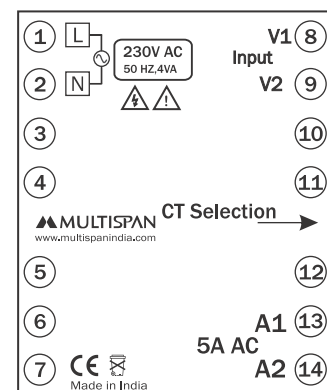
**Technical Specification**

Model	AV-12	AV-22	AV-33	AV-44
Display	2 Line, 3 Digit 7 seg 0.56", red LED Display			2 Line, 3Digit 0.39"
Size(HXWXD)	96 X 96 X 42mm	72 X 72 X 60mm	48 X 96 X 65mm	48 X 48 X 46mm
Panel Cutout	92 X 92 mm	68 X 68 mm	46 X 92 mm	45 X 45 mm
Input Voltage	30 to 500V AC			
Input Current	Primary : 5/5A to 2000/5A AC			30A AC Direct
Power Supply	230V AC, 50Hz			100 to 270V AC
Wire Connection	1Ø - 2 Wire			
Accuracy	Class 0.5			
Protection Level (As per request)	IP-65(Front side) AS per IS/IEC 60529:2001			
Relative Humidity	0° To 55°C			
Operating Temperature	Up to 95% RH Non Condensing			

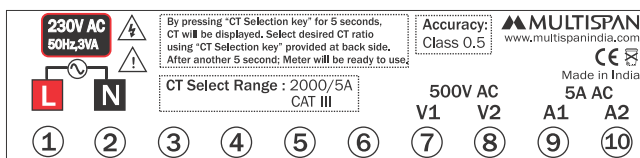
**Connection Diagram**



**AV-12**



**AV-22**



**AV-33**



**AV-44**

## Safety Precautions

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If all the equipment is not handled in a manner specified by the manufacturer, it might impair the protection provided by the equipment .

=> Read complete instructions prior to installation and operation of the unit.



**WARNING** : Risk of electric shock.

## Warning Guidelines

- 1) To prevent the risk of electric shock power supply to the equipment must be kept OFF while doing the wiring arrangement. Do not touch the terminals while power is being supplied.
- 2) To reduce electro magnetic interference, use wire with adequate rating and twists of the same of equal size shall be made with shortest connection.
- 3) Cable used for connection to power source, must have a cross section of  $1\text{mm}^2$  or greater. These wires should have insulations capacity made of at least 1.5kV.
- 4) A better anti-noise effect can be expected by using standard power supply cable for the instrument.

## Installation Guidelines

- 1) This equipment, being built-in-type, normally becomes a part of main control panel and such in case the terminals do not remain accessible to the end user after installation and internal wiring.
- 2) Do not allow pieces of metal, wire clippings, or fine metallic fillings from installation to enter the product or else it may lead to a safety hazard that may in turn endanger life or cause electrical shock to the operator.
- 3) Circuit breaker or mains switch must be installed between power source and supply terminal to facilitate power 'ON' or 'OFF' function. However this mains switch or circuit breaker must be installed at convenient place normally accessible to the operator.
- 4) Use and store the instrument within the specified ambient temperature and humidity ranges as mentioned in this manual.

## Mechanical Installation

AV-12		<table border="1"> <thead> <tr> <th>MODEL</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>DIMENSIONS</td> <td>96mm</td> <td>96mm</td> <td>92mm</td> <td>92mm</td> <td>3mm</td> <td>42mm</td> </tr> </tbody> </table>	MODEL	A	B	C	D	E	F	DIMENSIONS	96mm	96mm	92mm	92mm	3mm	42mm
MODEL	A	B	C	D	E	F										
DIMENSIONS	96mm	96mm	92mm	92mm	3mm	42mm										
AV-22		<table border="1"> <thead> <tr> <th>MODEL</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>DIMENSIONS</td> <td>72mm</td> <td>72mm</td> <td>68mm</td> <td>68mm</td> <td>3mm</td> <td>60mm</td> </tr> </tbody> </table>	MODEL	A	B	C	D	E	F	DIMENSIONS	72mm	72mm	68mm	68mm	3mm	60mm
MODEL	A	B	C	D	E	F										
DIMENSIONS	72mm	72mm	68mm	68mm	3mm	60mm										
AV-33		<table border="1"> <thead> <tr> <th>MODEL</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>DIMENSIONS</td> <td>48mm</td> <td>96mm</td> <td>44mm</td> <td>92mm</td> <td>4.5mm</td> <td>65mm</td> </tr> </tbody> </table>	MODEL	A	B	C	D	E	F	DIMENSIONS	48mm	96mm	44mm	92mm	4.5mm	65mm
MODEL	A	B	C	D	E	F										
DIMENSIONS	48mm	96mm	44mm	92mm	4.5mm	65mm										
AV-44		<table border="1"> <thead> <tr> <th>MODEL</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>DIMENSIONS</td> <td>48mm</td> <td>48mm</td> <td>45mm</td> <td>45mm</td> <td>3mm</td> <td>46mm</td> </tr> </tbody> </table>	MODEL	A	B	C	D	E	F	DIMENSIONS	48mm	48mm	45mm	45mm	3mm	46mm
MODEL	A	B	C	D	E	F										
DIMENSIONS	48mm	48mm	45mm	45mm	3mm	46mm										

- 1) Prepare the panel cutout with proper dimensions as show above.
- 2) Fit the unit into the panel with the help of clamp given.
- 3) The equipment in its installed state must not come in close proximity to any heating source, caustic vapors, oils steam, or other unwanted process by products.
- 4) Use the specified size of crimp terminal (M3.5 screws) to wire the terminal block. Tightening the screws on the terminal block using the tightening torque of the range of 1.2 N.m.
- 5) Do not connect anything to unused terminals.

## Maintenance

- 1) The equipment should be cleaned regularly to avoid blockage of ventilating parts.
- 2) Clean the equipment with a clean soft cloth. Do not use isopropyl alcohol or any other cleaning agent.
- 3) Fusible resistor must not be replaced by operator.

Product improvement and upgrade is a constant procedure. So for more updated operating information and support, Please contact our helpline : +91-9978991474/9978991476/9978991482 or Email at service@multispanindia.com

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