





72 x 72mm

**Features:**

- Class 0.5 accuracy
- True RMS voltage measurement
- Available in LED display
- CE & RoHS certified

Certifications :  

**Display Specifications**

|               |                       |
|---------------|-----------------------|
| Display       | 7 segment LED Display |
| Digits        | 3                     |
| Digit Height  | 0.56" (14.2mm)        |
| Display Range | 0 - 516V              |
| Resolution    | 1V                    |

**Input Specifications**

|                              |                       |
|------------------------------|-----------------------|
| Electrical Connection        | 1Ø - 2 wire           |
| Input Type                   | AC                    |
| Input Voltage Range          | 50 - 480V             |
| Continuous Max. Input Rating | 516V                  |
| Accuracy                     | ±0.5% of F.S          |
| Overrange Indication         | "Or" for input > 516V |
| Frequency Range              | 50 - 60Hz             |

**Electrical specification**

|                                 |   |
|---------------------------------|---|
| Installation category           | III   |
| High Voltage Test               | 2kV AC, 50Hz                                      |
| IP protection                   | IP51 Front Only                                   |
| Sampling Rate                   | 3 samples / second                                |
| Dielectric withstand Voltage    | 2kV AC between auxiliary supply & measuring input |
| Rated Impulse withstand Voltage | 3.5kV (1.2/50µS)                                  |

**Auxiliary Supply Specifications**

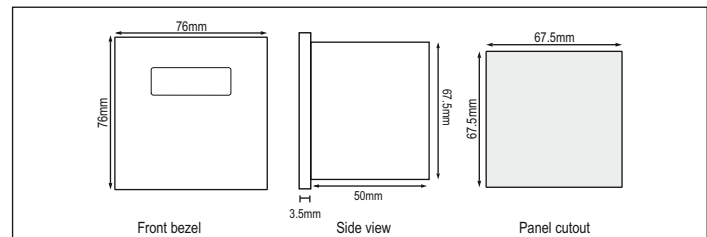
|                   |   |
|-------------------|---|
| Auxiliary Supply  | AC: 240V AC ±20% , (50 / 60Hz)<br>110V AC ±20% , (60Hz) |
| Supply Frequency  | 50 / 60Hz   |
| Input Burden      | 0.5 VA @ 5A AC  |
| Power Consumption | 5VA max @ 240V AC                                       |

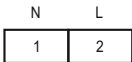
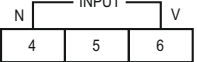


**Environmental Specifications**

|                           |                                |
|---------------------------|--------------------------------|
| Operating Temperature     | -10°C to +55°C (14°F to 131°F) |
| Storage Temperature       | -20°C to +75°C (-4°F to 167°F) |
| Humidity (non-condensing) | Up to 95% RH                   |
| Pollution degree          | 2                              |

**Mechanical Specifications**

|               |               |
|---------------|---------------|
| Mounting      | Panel mount   |
| Bezel size    | 72 mm x 72 mm |
| Overall depth | 50 mm         |
| Weight        | 180 gms       |



**Dimensions****Terminal connection**

|  |   |
|--|---|
|    |    |
|  Cable Size (AWG): 20 to 14 ; Tightening Torque (Lb-inch): 6.018 to 6.992 |  Cable Size (mm <sup>2</sup> ): 0.5 to 2.5 ; Tightening Torque (N-m): 0.68 to 0.79 |

## Compliance

| Applicable EMI / EMC Standards |                |  |
|--------------------------------|----------------|--|
| Product Standard : IEC 61326-1 |                |  |
| Category                       |                | Standards Compliance   |
| ESD Immunity                   | IEC 61000-4-2  | Level IV (Air discharge : 15kV),<br>(Contact Discharge : -8kV)   |
| Surge Immunity                 | IEC 61000-4-5  | +/- 2kV common mode, (Line to ground)<br>+/- 1kV differential mode, (Line to Line)   |
| Radiated Susceptibility        | IEC 61000-4-3  | Level III, 80 to 1000MHz (10V/m)<br>Level II, 1.4GHz to 2GHz (3V/m)<br>Level I, 2GHz to 2.7GHz (1V/m)  |
| Conducted Susceptibility       | IEC 61000-4-6  | Level II (3V/m)  |
| Voltage Dips and Interruptions | IEC 61000-4-11 | <b>Dips</b> : 0% residual voltage /<br>1 cycle (Criteria B), 40% residual voltage /<br>10 cycles 50Hz / 12 cycles 60Hz (Criteria C)<br>70% residual voltage / 25 cycles<br>50Hz / 30 cycles 60Hz (Criteria C)<br><b>Interruptions</b> : 0% residual voltage /<br>250 cycles 50Hz / 300 cycles 60Hz<br>(Criteria C) |
| Conducted Emission             | CISPR-11       |  |
| Radiated Emission              | CISPR-11       |  |
| Electrical Fast Transient      | IEC 61000-4-4  | Level III (2kV)  |

## Ordering Information

| Product Code  | Supply Voltage | Certification  |
|---------------|----------------|--|
| MV205         | 230V AC        | ---  |
| MV205-CE      | 230V AC        | CE   |
| MV205-110V    | 230V AC        | ---  |
| MV205-CU      | 230V AC        | CE  |
| MV205-110V-CU | 230V AC        | CE  |