





48 x 48mm

Features:

- Single row, 3 digit
- Analog style bargraph indication
- True RMS measurement
- For 1 phase 2 wire electrical connection

Certifications:  

Display Specifications

| | |
|---------------|------------------------------------|
| Display | Single row, Liquid Crystal Display |
| Digits | 3 |
| Digit Height | 0.56" (14.2mm) |
| Display Range | 5 to 516V |
| Bargraph | Analog style bargraph indication |

Input Specifications

| | |
|---------------------------------|---|
| Electrical Connection | 1 Ø-2 wire |
| Input Type | AC |
| Input Voltage Range | 50-480V |
| Continuous Max. Input Rating | 516V |
| Overrange Indication | "Or" for input > 516V |
| Frequency | 50 / 60Hz |
| Resolution | 1V |
| Accuracy | ±0.5% of F.S |
| Input Impedance | 1MΩ (± 5%) |
| Sampling Rate | 3 samples / second |
| Dielectric withstand Voltage | 2kV AC between auxiliary supply & measuring input |
| Rated Impulse withstand Voltage | 2kV (1.2/50µS) |

Auxiliary Supply Specifications

| | |
|-------------------|---|
| Auxiliary Supply | 240V AC ±20%, (50 / 60Hz) 110V AC ±20%, (60Hz) |
| Power Consumption | 5VA max |

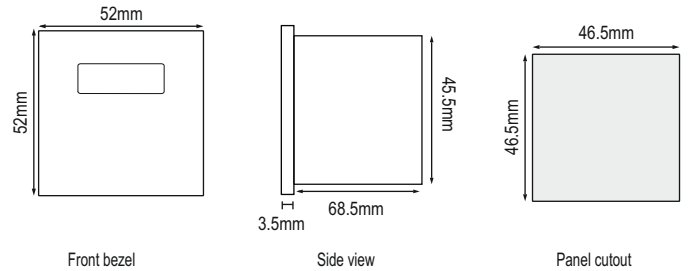
Environmental Specifications

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

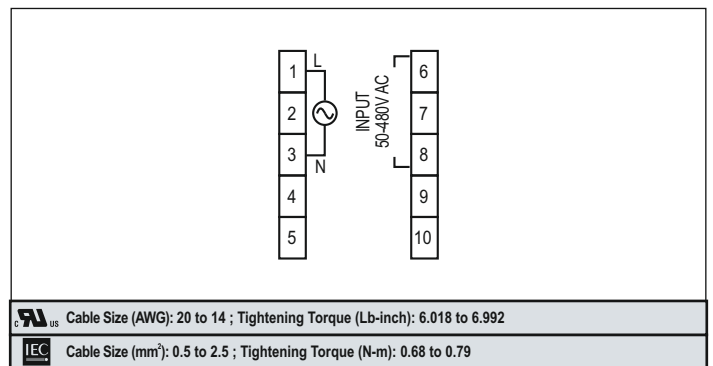
Mechanical Specifications

| | |
|----------|-------------|
| Mounting | Panel mount |
| Weight | 165g |

Dimensions



Terminal Connections



Compliance

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

Ordering Information

| Part No. | Supply Voltage | | Certification | |
|---------------|----------------|---------|---------------|-----------|
| | 110V AC | 240V AC | CE | UL LISTED |
| MV507 | | ■ | | |
| MV507-CU | | ■ | ■ | ■ |
| MV507-110V | ■ | | | |
| MV507-110V-CU | ■ | | ■ | ■ |