Digital Voltmeter

MV305



96 x 96 mm

Features:

- Class 0.5 accuracy
- True RMS voltage measurement
- Available in LED display

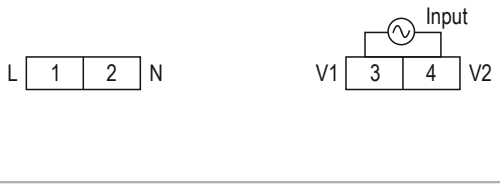
Certifications: CE

Technical specifications

Display specifications	
Display	Single row, 7 segment LED
Digit	3
Display height	0.56" (14.2 mm)
Display range	0 - 600V
Resolution	1V
Input specifications	
Electrical connection	1Ø-2W
Input type	AC
Rated input voltage range	50 - 480V
Continuous max. Input rating	520V
Accuracy	±0.5% of F.S
Over range indication	“Or” for input > 600V
Frequency range	50/60 Hz
Electrical specification	
Installation category	Installation category II (600V) Installation category III (35V-480V)
IP Protection	IP51 front, IP20 - back
Sampling rate	64 Samples / Second
Auxiliary supply specifications	
Auxiliary supply	240V AC ±20%
Supply frequency	50/60 Hz
Input burden	0.5VA @5A AC
Power consumption	20VA max @288V 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	96 x 96mm
Overall depth	36.4mm
Weight	136 gm

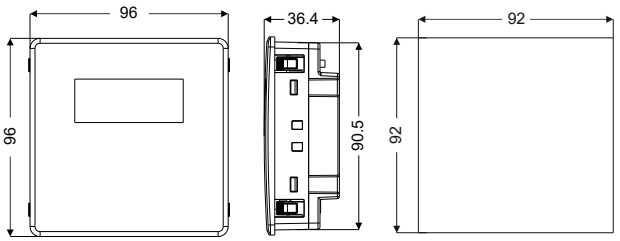
Terminal connections



Cable Size (AWG): 20 to 14 ; Tightening Torque (Lb-inch): 6.018 to 6.992

Cable Size (mm^2): 0.5 to 2.5 ; Tightening Torque (N-m): 0.68 to 0.79

Dimensions (All are in mm)



Standards compliance

Applicable EMI / EMC Standards		
Product standard : IEC 61326 - 1		
Category	**Standards**	**Compliance**
ESD Immunity	IEC 61000 - 4 - 2	Level IV (Air discharge : 8kV), (Contact discharge : 4kV)
Surge immunity	IEC 61000 - 4 - 5	+ / - 2kV Common mode, (Line to ground)
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

Product code	Supply voltage	Certification
MV305	240V AC (+ 20%)	- - -
MV305-CE	240V AC (+ 20%)	CE