



SELEC MV Series Digital Voltmeter with LED Display Instruction Manual

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SELEC MV Series Digital Voltmeter with LED Display



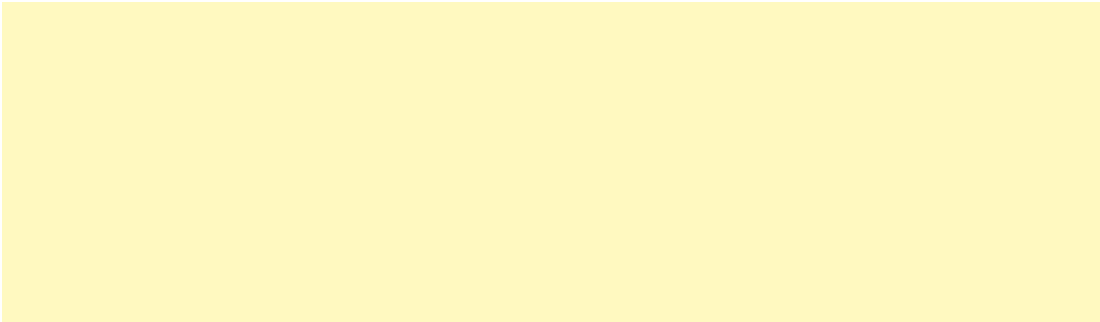
Product Information

Product Name	Description	Display
MV15	3 Digit 7 segment LED display	(48 x 96)
MV205	3 Digit, LCD with Analog style bar graph indication	(48 x 48)
MV305	3 Digit, LCD with Analog style bar graph indication	(72 x 72)
MV507	3 Digit, LCD with Analog style bar graph indication	(96 x 96)

Specifications

Dis pla y r ang e	Input ra nge	Inpu t Fre que ncy	Max con tinuous I nput ran ge	Over r ange i ndicat ion	Inpu t imp edan ce	Re so lut ion	Electri cal co nnecti on	Suppl y Volt age(V n)	W ei gh t	CE and UL Cer tificati on						
0 to 516 V	0 to 300 V (L-N) 0 to 516V (L-L)	50 to 480V AC	50 / 60H z	516V	170g m	1V	180gm	180g m	1 6 5 g m	194gm	Y E S	Y E S	C E O N L Y	Y E S	Y E S	Y E S

SPECIFICATIONS							
AC MODEL							
Product Name	MV15	MV205	MV305	MV507	MV207	MV2307	
Description	1 Ø Digital voltmeter					3 Ø Digital voltmeter with Selector switch	
Display	3 Digit 7 segment LED display 3 Digit, LCD with Analog style bar graph indication 0 to 516V 0 to 300V (L-N) 0 to 516V (L-L) 50 to 480V AC 50 / 60Hz 516V “Or” for input > 516V 1M (±5%) 1V						
Display range							
Input range							
Input Frequency							
Max continuous Input range							
Over range indication							
Input impedance							
Resolution							
Electrical connection	1 Ø – 2 wire					3 Ø-4wire, 3 Ø-3wire	
Supply Voltage(Vn)	240V AC (± 20%), 50 / 60Hz ; 110V AC (± 20%), 60Hz					206gm	
Weight	170gm	180gm	180gm	165gm	194gm		
CE and UL Certification	YES	YES	CE ONLY	YES	YES	YES	

DC MODEL					AC MODEL (AUTO RANGING TYPE)	
Product Name	MV15-DC-20V	MV15-DC-200V	MV15-DC-200mV	MV15-DC-2V	MV15-AC-20/200V	MV15-AC-200/2000mV
Description	Digital voltmeter 3 ½ digit 7 Segment LED Display					
Display						
Display range	-19.99V to +19.99V	-199.9V to +199.9V	-199.9mV to +199.9mV	-1999mV to +1999mV	0 to 19.99/199.9V	0 to 199.9/1999mV
Input range	0 to ±20V	0 to ±200V	0 to ±200mV	0 to ±2000mV	0 to 20/200V	0 to 200/2000mV
Input Frequency					50 / 60Hz	
Max continuous Input range	±19.99V	±199.9V	±199.9mV	±1999mV	19.99/199.9V	199.9/1999mV
Over range Indication	“Or” for input > ±19.99V	“Or” for input > ±199.9V	“Or” for input > ±199.9mV	“Or” for input > ±1999mV	“Or” for input > 199.9V	“Or” for input > 1999mV
Resolution	0.01	0.1		1	0.01/0.1	0.1/1
Electrical connection	1 Ø – 2 wire 					
Supply Voltage(Vn)						
	240V AC (± 10%), 50 / 60Hz ; 110V AC (± 10%), 60Hz					
Weight	170gm	170gm	170gm	170gm	170gm	170gm
CE and UL Certification	YES	YES	YES	YES	YES	YES

Product Usage Instructions

Operating Conditions

- Measurement Method: True RMS
- Sampling Rate: 3 samples/second

- Power consumption: 5VA max.
- Measuring input over-voltage: 1.5 x Vn continuous, 2 x Vn (3s)

Environmental Conditions

- Temperature: Up to 95% RH (non-condensing)
- Altitude: Up to 2000 meters
- Pollution degree: II
- Installation Category: III (600V)
- Protection Class: II
- Mounting: Panel mounting

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 the equipment is not used in a manner specified by the manufacturer, it might impair the protection provided by the equipment. Do not use the equipment if there is any mechanical damage. Ensure that the equipment is supplied with the correct voltage.

Wiring Guidelines

WARNING

1. To prevent the risk of electric shock, the power supply to the equipment must be kept OFF while doing the wiring arrangement.
2. Wiring shall be done strictly according to the terminal layout. Confirm that all connections are correct.
3. Use lugged terminals.
4. To reduce electromagnetic interference use wires with proper shielding.

Installation Guidelines

CAUTION

This equipment, being built-in-type, normally becomes a part of the main control panel and in such cases, the terminals do not remain accessible to the end user after installation and internal wiring.

Ordering Information

Note: For CE and UL-certified products, Add-CE; the -CU suffix to the order code. For example MV15-DC-20V-CU; MV305-CE. For 110V Supply add -110V in order code. For example MV15-DC-20V-110V-CU; MV305-110V-CE.

SAFETY PRECAUTIONS

Safety-related codifications, symbols and instructions that appear in was operating manual or on the equipment must be strict to owed to ensure the safety of the operating personnel as well as the instrument if the equipment is not used in a manner expected by the man a " mont unfair me protection proved.

- Do not use the cou moment there s any mechanical damage
- ensure mature equipment supplied wins correct Vonage

Read complete instructions prior to installation and operation

	Outline Dimensions (in mm)		Panel cutout Dimensions (in mm)
MV507			
MV15			
MV305			
MV2307			

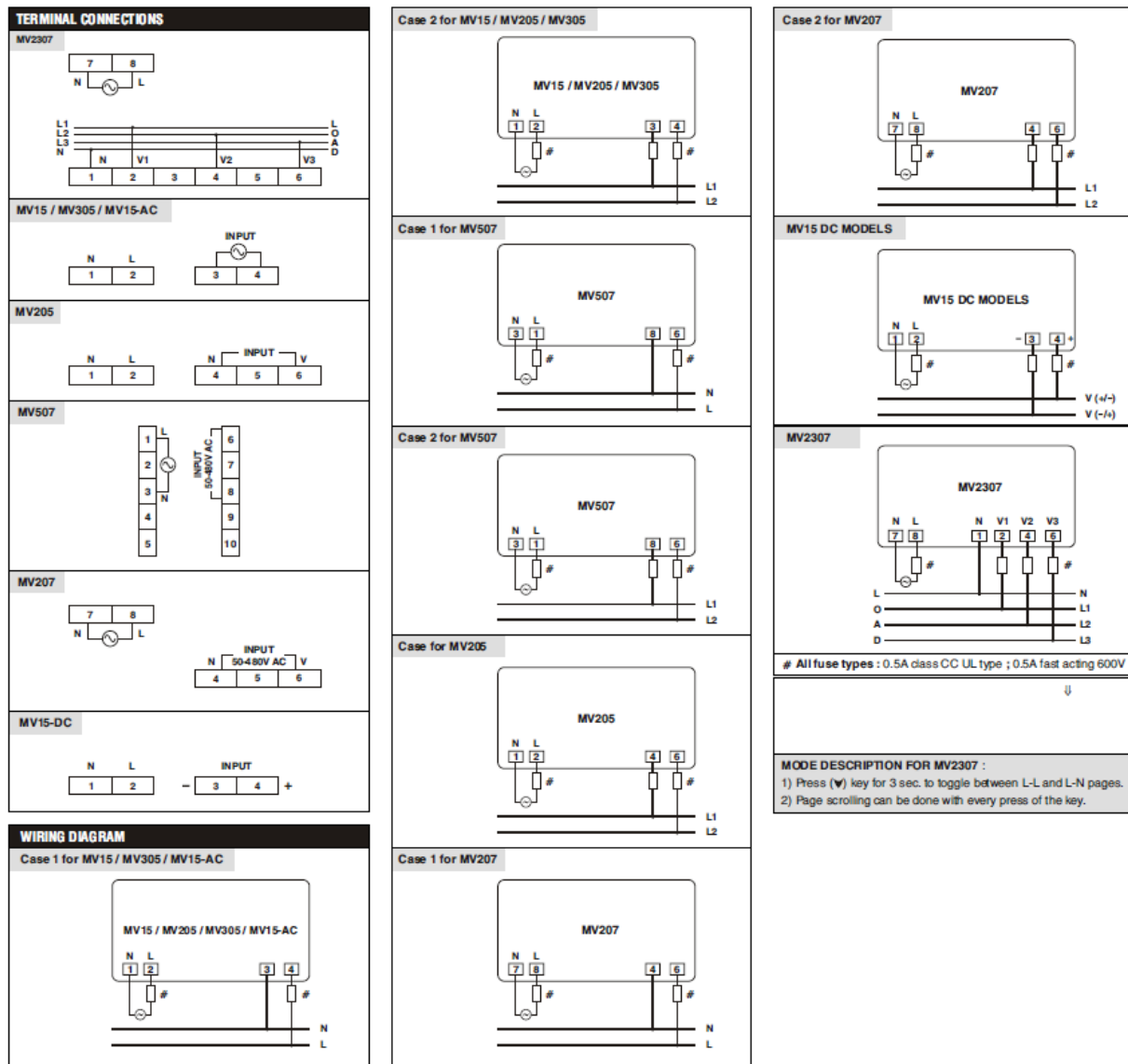
Risk of electric shock

The equipment is prox mity to any heating sources. caustic vapors. os. steam or owner unwanted process oy products.

WIRING GUIDELINES / WARNING

1. To prevent the risk of electric shock power stop to the equipment must be kept oFF while doing the win no arrangement.
2. Winnie shall be done since Accrington is the terminal layout. Use rugged terminals.
3. To reduce electromagnetic interference use of wires with adequate ratings and twists of the same in equal size shall be made with the shortest connections
4. Layour or connecting cables shall be away tom any informal
5. the cave used for connection to the power source must have a crossectionc0 5mm'#25mm (20°014AWG:75'Ciminis These wires shall have a current carrying capacity of 6A. cooper cable should be used Stranded or Single core cable]
6. Before attempting work on the device, ensure the absence of voltages using a voltage detection device

INSTALLATION GUIDELINES



CAUTION This equipment, being built-in-type normally becomes not remain accessible to the end user after installation and internal wiring of the circuitry of the equipment or else it may lead to a safety hazard that may endanger or cause electrical shock to the operator. The limit breaker or main switch must be installed between the power source and supply terminals to facilitate the power ON function. However, this switch or breaker must be installed in a convenient position nor any access to the transformer from the moment. make sure that the current transformer is short-circuited to avoid risk of electrical shock and injury. The equipment shall not be installed in environmental conditions other than those mentioned in this manual. The equipment does not have a built-in fuse. installation of the external fuse of range 2rb Ad U.sAmp for For installing the meter Push the meter into the panel cutout. Secure the meter in its place by pushing the clamp on the rear side. The clamps must be secured in a diagonally opposite slots. For improper sealing, content the screws even with the required internal screw-borne torque.

MAINTENANCE

The equipment should be cleaned regularly to avoid blockage of ventilating parts. Clean the equipment with a clean dry or damp cloth. Do not use any cleaning agent other than water. 037/2-V01 Page 1 of 2 (Specifications are subject to change as development is a continuous process.)

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Documents / Resources



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MV Series Digital Voltmeter with LED Display, Digital Voltmeter with LED Display, Voltmeter with LED Display, LED Display, MV15, MV205, MV305, MV507, MV207, MV2307

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