

MultiView™ Series Digital MultiMeters

Manual Ranging Digital MultiMeters with Adjustable Viewing Angle Display

Features:

- Large 1" LCD display adjusts for better viewing angle
- Auto power off
- Shock resistant case with protective rubber holster
- Improper test lead position alarm alerts user if position does not match function selected
- Measurement functions include AC/DC Voltage and Current, Resistance, Diode, Continuity and Transistor
- Complete with 9V battery, test leads, protective holster and temperature probe (MV120 only)

CE CAT II-600V



Applications:

- Tilt display adjusts 0° to 80° for best viewing angle
- Industrial electrical installation and troubleshooting
- Electronic testing and repair



Additional Features

Model MV110:

- 2000 count (3-1/2 digits)
- Basic DCV accuracy of 0.5%
- Battery check for 9V and 1.5V batteries
- 50Hz square wave output



Additional Features

Model MV120:

- 2000 count (3-1/2 digits)
- Basic DCV accuracy of 0.5%
- Capacitance measurements
- Temperature function with switchable °C/°F units



Additional Features

Model MV130:

- Highest resolution, 20000 count (4-1/2 digits) display
- Basic DCV accuracy of 0.05%
- Capacitance and Frequency measurements
- Data Hold and overload alarm

Specifications (Model)	Range	Max. Resolution	Basic Accuracy (%rdg+digits)
AC Voltage:	200mV, 2V, 20V, 200V, 750V	100μV 100μV	±(1.2% + 3d) MV110, MV120 ±(0.8% + 10d) MV130
DC Voltage:	200mV, 2V, 20V, 200V, 1000V	100μV 10μV	±(0.5% + 1d) MV110, MV120 ±(0.05% + 3d) MV130
AC/DC Current:			
(MV110)	20μA, 200μA, 2mA, 20mA, 200mA, 2A, 10A	10nA	±(0.8% + 1d) DC ±(1.8% + 3d) AC
(MV120)	20mA, 200mA, 20A	10μA	±(0.8% + 1d) DC ±(1.0% + 3d) AC
(MV130)	2mA, 20mA, 200mA, 10A	0.1μA	±(0.8% + 10d) DC ±(1.0% + 10d) AC
Resistance (Ω): (MV110, MV120)	200, 2k, 20k, 200k, 2M, 20M, 200M	0.1Ω	±(0.8% + 3d)
(MV130)	200, 2k, 20k, 200k, 2M, 20M	0.01Ω	±(0.2% + 1d)
Capacitance: (MV120, MV130)	2nF, 20nF, 200nF, 2μF, 20μF	1pF	±(2.5% + 3d)
Frequency: (MV130)	20kHz	1Hz	±(1.5% + 10d)
Temperature: (MV120)	-40 to 1832°F (-40 to 1000°C)	1°F/°C	±(0.75% + 3d)
Dimensions/ Weight:	3.5 x 7.5 x 1.4" (88 x 191 x 36mm) / 11oz (312g)		

Ordering Information:

MV110	MultiView™ Digital MultiMeter	\$39
MV110-NIST	MultiView™ Digital MultiMeter with NIST Certificate	\$104
MV120	MultiView™ Digital MultiMeter w/ Temperature	\$69
MV120-NIST	MultiView™ Digital MultiMeter w/ Temperature with NIST Certificate	\$134
MV130	MultiView™ High Resolution Digital MultiMeter	\$99
MV130-NIST	MultiView™ High Resolution Digital MultiMeter with NIST Certificate	\$164
CA899	Vinyl Pouch Carrying Case	\$15
TP870	Spare Bead Wire Temperature Probe	\$13
TL805	Spare set of CAT. III-1000V Test Leads	\$10
TL807	Set of Alligator Clips (2pk) for TL805	\$4

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FUNCTION (Model)	RANGE	ACCURACY (% rdg. + digits)	RESOLUTION	INPUT PROTECTION	COMMENTS
DC Voltage: (110, 120)	200mV	$\pm(0.5\% + 1d)$	100 μ V	250V rms	Input impedance > 10M Ω
	2, 20, 200V	$\pm(0.5\% + 1d)$	1, 10, 100mV	1000VDC/750VAC	
	1000V	$\pm(0.8\% + 2d)$	1V	1000VDC/750VAC	
(130)	200mV	$\pm(0.05\% + 3d)$	10 μ V	250V rms	
	2, 20, 200V	$\pm(0.05\% + 3d)$	0.1, 1, 10mV	1000VDC/750VAC	
	1000V	$\pm(0.1\% + 5d)$	100mV	1000VDC/750VAC	
AC Voltage: (110, 120)	200mV	$\pm(1.2\% + 3d)$	100 μ V	1000VDC/750VAC	Input impedance > 10M Ω
	2, 20, 200V	$\pm(0.8\% + 3d)$	1, 10, 100mV	1000VDC/750VAC	Frequency range:
	750V	$\pm(1.2\% + 3d)$	1V	1000VDC/750VAC	<200V: 40 to 400Hz
(130)	2, 20, 200V	$\pm(0.8\% + 10d)$	0.1, 1, 10mV	1000VDC/750VAC	< 750V: 40 to 200Hz
	750V	$\pm(1.0\% + 15d)$	100mV	1000VDC/750VAC	
DC Current: (110)	20 μ A	$\pm(2.0\% + 5d)$	10nA	2A, 250V fuse	15 sec. max @ 20A
	200 μ A, 2, 20mA	$\pm(0.8\% + 1d)$	0.1, 1, 10 μ A	2A, 250V fuse	
	200mA, 2A	$\pm(1.2\% + 1d)$	100 μ A, 1mA	2A, 250V fuse	
	10A	$\pm(2.0\% + 5d)$	10mA	not fused	
(120)	20, 200mA	$\pm(0.8\% + 1d)$	0.01, 0.1mA	0.2A, 250V fuse	
	20A	$\pm(2.0\% + 5d)$	10mA	not fused	
(130)	2, 20, 200mA	$\pm(0.8\% + 10d)$	0.1, 1, 10 μ A	0.2A, 250V fuse	
	10A	$\pm(2.0\% + 10d)$	1mA	not fused	
AC Current: (110)	20 μ A	$\pm(3.0\% + 7d)$	10nA	2A, 250V fuse	Frequency: 40 to 400Hz
	200 μ A	$\pm(1.8\% + 3d)$	0.1 μ A	2A, 250V fuse	Maximum input: 10A (110, 130),
	2, 20mA	$\pm(1.0\% + 3d)$	1, 10 μ A	2A, 250V fuse	20A (120)
	200mA, 2A	$\pm(1.8\% + 3d)$	0.1, 1mA	2A, 250V fuse	Average responding
	10A	$\pm(3.0\% + 7d)$	10mA	not fused	15 sec. max @ 20A
(120)	20, 200mA	$\pm(1.0\% + 3d)$	0.01, 0.1mA	0.2A, 250V fuse	
	20A	$\pm(3.0\% + 7d)$	10mA	not fused	
(130)	2, 20 200mA	$\pm(1.0\% + 10d)$	0.1, 1, 10 μ A	0.2A, 250V fuse	
	10A	$\pm(2.0\% + 10d)$	1mA	not fused	
Resistance: (110, 120)	200 Ω	$\pm(0.8\% + 3d)$	0.1 Ω	250V DC or ACrms	Open circuit voltage <0.7V
	2, 20, 200k Ω , 2M Ω	$\pm(0.8\% + 1d)$	1, 10, 100 Ω , 1k Ω		RH 200M Ω range: <75%
	20M Ω	$\pm(1.0\% + 2d)$	10k Ω		RH other ranges: <90%
	200M Ω	$\pm(5.0\%(rdg-10d)+ 10d)]$	100k Ω		On the 200M Ω range a 1.0M Ω
(130)	200 Ω	$\pm(0.2\% + 5d)$	0.01 Ω		offset exists. Subtract 1.0M Ω
	2, 20, 200k Ω , 2M Ω	$\pm(0.2\% + 1d)$	0.1, 1, 10, 100 Ω		from all readings.
	20M Ω	$\pm(0.5\% + 5d)$	1k Ω		
Capacitance: (120)	2, 20, 200nF	$\pm(2.5\% + 3d)$	1, 10, 100pF		Test Freq: 400Hz
	2, 20 μ F	$\pm(2.5\% + 3d)$	1nF, 10nF		Test V: 40mV
(130)	2, 20, 200nF	$\pm(2.5\% + 10d)$	0.1, 1, 10, 100pF		
	2, 20 μ F	$\pm(2.5\% + 10d)$	1nF		
Temperature: (120)	-18 to 400°C	$\pm(0.75\% + 4d)$	1°C		Type K Thermocouple
	0 to 752°F	$\pm(0.75\% + 4d)$	1°F		
	-40 to 1000°C	$\pm(1.6\% + 15d)$	1°C		
	-40 to 1832°F	$\pm(1.6\% + 15d)$	1°F		
Frequency: (130)	20kHz	$\pm(1.5\% + 10d)$	1Hz	250VAC/VDC	Sensitivity: 100mV
Diode test:	Forward DC current approx. 1mA, Reverse DC voltage approx. 3V				
Transistor hFE:	0 to 1000 Base current approx. 10 μ A, Vce approx 2.8V				
Continuity:	Buzzer sounds when R < 30 Ω				
Battery check:(110)	1.5V	30 Ω Internal resistance			
	9.0V	1.8k Ω Internal resistance			
Square Wave: (110)	Approx. 50Hz, 4 to 6V				
Display:	1999 count 3 1/2 digit, adjustable angle (110, 120)				
	19999 count 4 1/2 digit, adjustable display (130)				
Sample Rate:	Approximately 2 to 3 per second				
Input warning:	Alarm sounds with test leads in the A or 10A socket with wrong function selected				
Fuse Protection:	2A (A socket), 0.2A (mA socket), 10A or 20A range not fused				
Power Supply:	9V battery				
Range selection:	Manual				
Over-range Indication:	"1"				
Auto Off:	Unit switches off after 15 minutes of inactivity				
Low Battery Indication:	Battery symbol				
Operating Temp/ Humidity:	32°F to 104°F (0°C to 40°C) / < 75% RH				
Storage Temperature:	14°F to 122°F (-10°C to 50°C)				
Dimension:	7.3 x 3.5 x 1.3" (185 x 89 x 32mm)				
Weight:	Approx. 9.7oz (300g)				