

MultiPro™ Series Professional MultiMeters High Performance Autoranging Digital MultiMeters with RS-232 PC Interface

Features:

- High basic DC Voltage accuracy of 0.08%
- Wide AC Voltage bandwidth of 40Hz to 20kHz
- Rugged design with protective holster and water resistant housing
- Optically isolated RS-232 PC interface with Windows® 95/98/NT/2000/ME/XP compatible software (optional) allows user to collect, display, plot, save or export data or graphs
- Backlit 5000 count LCD display for high resolution (0.01mV, 0.1µA, 0.01, 0.01nF, 0.001Hz)
- Smart auto power off is disabled if signal is present at test leads
- Hold and low resistance auto-lead zero
- Measurement functions include AC/DC Voltage and Current, Resistance, Frequency, Capacitance, Diode and Continuity
- Complete with built-in stand, CAT. III test leads, protective holster, 9V battery and temperature probe (-58 to 482°F/-50 to 250°C) for MP530



Model MP510

- 0.08% Basic DC Accuracy



Additional Features Model MP530:

- True RMS measurements for AC Voltage and Current
- °F/°C Temperature function
- Relative, Min, Max, Max-Min and 5ms Peak hold
- Analog bargraph Zoom provides 5x resolution to detect small signals (updates 60/sec)



CAT IV - 600V

Specifications	Range	Max. Resolution	Basic Accuracy (%rdg+digits)
DC/AC Voltage:	50mV, 500mV, 5V, 50V, 500V, 1000V	0.01mV	±(0.08%+2d) DC ±(0.5%+3d) AC
DC/AC Current:	500µA, 5000µA, 50mA, 500mA, 5A, 10A	0.1µA	±(0.2%+4d) DC ±(0.6%+3d) AC
Resistance (Ω):	50, 500k, 5k, 50k, 500k, 5M, 50M	0.01Ω	±(0.1%+2d)
Capacitance:	50nF, 500nF, 5µF, 50µF, 500µF, 9999µF	0.01nF	±(0.8%+3d)
Frequency:	0.001Hz to 125kHz	0.001Hz	±(0.01%+2d)
Temperature:	-58 to 1832°F (MP530 only) (-50 to 1000°C)	1°F/°C	±(0.3%+3d)
Dimensions/ Wt:	7.32 x 3.42 x 1.39" (186 x 87x 35.5mm) / 0.75lb (340g)		



Applications:

- True RMS is ideal for voltage and current measurements of distorted waveforms in office and industrial locations
- Wide bandwidth for audio frequency and digital electronic production test and repair
- Monitor, display and store data using the optional PC software



All models include Double injection molded CAT. III - 1000V Test Leads for safety, better grip and added durability.

Ordering Information:

MP510.....MultiPro™ Professional MultiMeter
 MP510-NIST.....MultiPro™ Professional MultiMeter with NIST Certificate
 MP530.....MultiPro™ True RMS Professional MultiMeter w/ Temp
 MP530-NIST.....MultiPro™ True RMS Professional MultiMeter w/ Temp
 SW800.....MultiPro™ Software Diskette and RS-232 Cable
 TP872.....Spare bead wire Temperature Probe
 TL805.....Spare set of CAT. III - 1000V Test Leads
 TL807.....Set of Alligator Clips (2pk)
 CA899.....Vinyl Pouch Carrying Case
 FS880.....Spare Fuse

MultiPro™ Series Professional MultiMeters

High Performance Autoranging Digital MultiMeters with RS-232 PC Interface

FUNCTION	RANGE	ACCURACY (% rdg + digits)	NOTES
DC Voltage:	50.00mV	±(0.12% + 2d)	Input Impedance: 10MΩ Input protection: V;1050Vrms, mV; 600VDC/AC
	500.0mV	±(0.06% + 2d)	
	5.000V	±(0.08% + 2d)	
	50.00V	±(0.08% + 2d)	
	500.0V	±(0.08% + 2d)	
	1000V	±(0.08% + 2d)	
AC Voltage:	50.00mV	±(0.5% + 3d)	Input Impedance: 10MΩ Stated specification at 50/60Hz (wider specs at 40Hz to 20kHz) True RMS (MP530) Input protection: V;1050Vrms, mV; 600VDC/AC
	500.0mV	±(0.5% + 3d)	
	5.000V	±(0.5% + 3d)	
	50.00V	±(0.5% + 3d)	
	500.0V	±(0.5% + 3d)	
	1000V	±(0.5% + 3d)	
DC Current:	500.0μA	±(0.2% + 4d)	Burden voltage; 0.15mV/μA, 3.3mV/mA, 0.03V/A On 10A range, 20A for 30 seconds with 5 minute cool down Input protection; μA/mA 1A/240V fuse, A 13A/240V fuse
	5000μA	±(0.2% + 4d)	
	50.00mA	±(0.2% + 4d)	
	500.0mA	±(0.2% + 4d)	
	5.000A	±(0.2% + 4d)	
	10.00A	±(0.2% + 4d)	
AC Current:	500.0μA	±(0.6% + 3d)	Stated specification @ 50/60Hz (wider specs at 40Hz to 1kHz) On 10A range, 20A for 30 seconds with 5 minute cool down True RMS (MP530) Input protection; μA/mA 1A/240V fuse, A 13A/240V fuse
	5000μA	±(0.6% + 3d)	
	50.00mA	±(0.6% + 3d)	
	500.0mA	±(0.6% + 3d)	
	5.000A	±(0.6% + 3d)	
	10.00A	±(0.6% + 3d)	
Resistance:	50.00Ω	±(0.2% + 6d)	Open circuit voltage:<1.3VDC (<3VDC on 50Ω &500Ω ranges) Input protection; 600VDC/AC
	500.0Ω	±(0.1% + 3d)	
	5.000kΩ	±(0.1% + 2d)	
	50.00kΩ	±(0.1% + 2d)	
	500.0kΩ	±(0.1% + 2d)	
	5.00MΩ	±(0.4% + 3d)	
Capacitance:	50.00nF	±(0.8% + 3d)	Accuracies stated for film capacitors or better Input protection; 600VDC/AC
	500.0nF	±(0.8% + 3d)	
	5.000μF	±(1.0% + 3d)	
	50.00μF	±(2.0% + 3d)	
	500.0μF	±(3.5% + 5d)	
	9999μF	±(5.0% + 5d)	
Temperature:	-58F to 1832°F	±(0.3% + 5d)	Thermocouple range and accuracy not included
	(MP530 only) -50 to 1000°C	±(0.3% + 3d)	

Frequency:	Function	Range	Sensitivity	Accuracy (%rdg + digits)
	mV	10Hz to 125kHz	300mV	±(0.01% + 2d)
	5V	10Hz to 125kHz	2V	±(0.01% + 2d)
	50V	10Hz to 20kHz	20V	±(0.01% + 2d)
	500V	10Hz to 1kHz	80V	±(0.01% + 2d)
	1000V	10Hz to 1kHz	300V	±(0.01% + 2d)
	Ω, Cx, diode	10Hz to 125kHz	300mV	±(0.01% + 2d)
	μA, mA, A	10Hz to 125kHz	10%FS	±(0.01% + 2d)

Diode test:	2.000V ±(1% + 1digit) Open circuit voltage <3.5V, 0.8mA typical test current
Continuity:	Buzzer sounds between 20Ω and 200Ω, Response time <100μs
Crest Mode:	(for V&A) ±150 digits for changes > 5msec in duration
Display:	5000 count LCD with backlighting and bargraph
Update Rate:	5 per second, Bargraph; 60 per second
Auto Power Off:	After 17 minutes inactive
Standards:	IEC 1010, CAT IV- 600V
Operating Temperature:	32 to 122°F (0 to 50°C)
Storage Temperature:	-4 to 176°F (-20 to 60°C)
Relative Humidity:	80% (32 to 95°F/ 0 to 35°C), 70% (95 to 122°F/ 35 to 50°C)
Power Supply:	9V alkaline battery
Power consumption:	2.7mA typical
Dimensions:	7.32 x 3.42 x 1.39" (186 x 87 x 35.5mm)
Weight:	0.75lb (340g)

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