EXTECH INSTRUMENTS
ISO 9001 CERTIFIED

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 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, 0.01Ω, 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 (model dependent)

CAT III - 600V,
CAT II - 1000V

Model MP510

- 0.08% Basic DC Accuracy

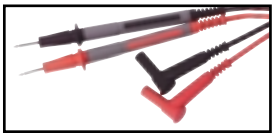
Additional Features Model MP520:

- True RMS measurements for AC Voltage and Current

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)

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: (MP530 only)	-58 to 1832°F (-50 to 1000°C)	0.1°F/°C	±(0.3%+3d)
Dimensions/ Wt:	7.32 x 3.42 x 1.39" (186 x 87x 35.5mm) / 0.75lb (340g)		



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

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

Ordering Information:

MP510.....**MultiPro™ Professional MultiMeter**
MP520.....**MultiPro™ True RMS Professional MultiMeter**
MP530.....**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**

NIST CERTIFICATES WITH DATA AVAILABLE FOR ALL MODELS.
ADD "-NIST" TO END OF PART NUMBER

EXTECH INSTRUMENTS 3 Year Warranty

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FUNCTION	RANGE	ACCURACY (% rdg + digits)	NOTES
DC Voltage:	50.00mV	±(0.12% + 2d)	Input Impedance: 10MΩ
	500.0mV	±(0.06% + 2d)	Input protection; V;1050Vrms, mV; 600VDC/AC
	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
	500.0mV	±(0.5% + 3d)	Stated specification at 50/60Hz (wider specs at 40Hz to 20kHz)
	5.000V	±(0.5% + 3d)	True RMS (MP520 &530)
	50.00V	±(0.5% + 3d)	Input protection; V;1050Vrms, mV; 600VDC/AC
	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
	5000µA	±(0.2% + 4d)	On 10A range, 20A for 30 seconds with 5 minute cool down
	50.00mA	±(0.2% + 4d)	Input protection; µA/mA 1A/240V fuse, A 13A/240V fuse
	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)
	5000µA	±(0.6% + 3d)	On 10A range, 20A for 30 seconds with 5 minute cool down
	50.00mA	±(0.6% + 3d)	True RMS (MP520 &530)
	500.0mA	±(0.6% + 3d)	Input protection; µA/mA 1A/240V fuse, A 13A/240V fuse
	5.000A	±(0.6% + 3d)	
	10.00A	±(0.6% + 3d)	
Resistance:	50.00Ω	±(0.2% + 6d)	Open circuit voltage:<1.3VDC
	500.0Ω	±(0.1% + 3d)	(<3VDC on 50Ω &500Ω ranges)
	5.000kΩ	±(0.1% + 2d)	Input protection; 600VDC/AC
	50.00kΩ	±(0.1% + 2d)	
	500.0kΩ	±(0.1% + 2d)	
	5.00MΩ	±(0.4% + 3d)	
	50.00MΩ	±(1.5% + 5d)	
Capacitance:	50.00nF	±(0.8% + 3d)	Accuracies stated for film capacitors or better
	500.0nF	±(0.8% + 3d)	Input protection; 600VDC/AC
	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	5Hz to 125kHz	300mV	±(0.01% + 2d)
	5V	5Hz to 125kHz	2V	±(0.01% + 2d)
	50V	5Hz to 20kHz	20V	±(0.01% + 2d)
	500V	5Hz to 1kHz	80V	±(0.01% + 2d)
	1000V	5Hz to 1kHz	300V	±(0.01% + 2d)
	Ω, Cx, diode	5Hz to 125kHz	300mV	±(0.01% + 2d)
	µA, mA, A	5Hz 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. III- 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)