EXTECH Product DATASHEET

MultiLog[™] Datalogging MultiMeter

Log and view up to 43,000 data points at capture rates as fast as 20 times per second

Features:

- 10 selectable datalogging sample rates from 0.05 second (50ms) to 480 seconds (8 minutes) per sample for high speed data collection or long time studies
- 43,000 data point memory
- View stored data directly on LCD display with quick min/max and trend displays
- Optically isolated RS-232 PC interface with Windows[®] 95/98/NT/ 2000/ME/XP compatible software (included) allows user to collect, display, plot, save or export data or graphs
- Rugged design with protective holster and water resistant housing
- High basic DC Voltage accuracy of 0.08%
- True RMS measurements for AC Voltage and Current
- Wide AC Voltage bandwidth of 40Hz to 20kHz
- Smart auto power off is disabled if signal is present at test leads
- Temperature function with selectable °F/°C units
- Backlit 5000 count LCD display for high resolution (0.01mV, 0.1µA, 0.01Ω, 0.01nF, 0.001Hz)
- · Hold and low resistance auto-lead zero
- 10 measurement functions including AC/DC Voltage and Current, Resistance, Temperature, Frequency, Capacitance, Diode and Continuity
- Complete system includes multimeter with built-in stand, CAT III test leads, Temperature probe (-58 to 482°F/-50 to 250°C), software, RS-232 cable,
- protective holster and 9V battery. (AC adaptor not available)



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

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

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Applications:

- Use logged data collected in the field to generate reports
- Monitor and analyze electrical parameters over time
- Use with multimeter adaptors to perform studies on Airflow, Humidity, Light Level, Large Currents and rpm measurements



ML720......MultiLog[™] Datalogger MultiMeter ML720-NISTMultiLog[™] Datalogger MultiMeter w/ NIST Cert. TP872.....Spare bead wire Temperature Probe TL805Spare set of CAT. III - 1000V Test Leads TL807Set of Alligator Clips (2pk) CA899Vinyl Pouch Carrying Case FS880Spare Fuse



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FUNCTION	RANGE	ACCURACY (%rdg + digits)	NOTES			
DC Voltage:	50.00mV	±(0.12% + 2d)	Input Impedance:	10ΜΩ		
-	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:	10ΜΩ		
Ū	500.0mV	±(0.5% + 3d)	Stated specification @ 50/60Hz (wider specs at 40Hz to 20kHz)			
	5.000V	±(0.5% + 3d)	True RMS			
	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, 20	On 10A range, 20A for 30 seconds with 5 minute cool down		
	50.00mA	±(0.2% + 4d)	Input protection; µ	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 at 50/60Hz (wider specs at 40Hz to 1kHz) On 10A range, 20A for 30 seconds with 5 minute cool down			
	5000µA	±(0.6% + 3d)				
	50.00mA	±(0.6% + 3d)	True RMS Input protection; μ A/mA 1A/240V fuse, A 13A/240V fuse			
	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			
	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 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			
	-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	$\pm (0.01\% + 2d)$		
	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)		
	μ A, mA, A	10Hz to 125kHz	10%FS	±(0.01% + 2d)		
Diode test:	2.000V ±(1% + 1dia	it) Open circuit voltage <3.5V, 0.8mA ty	pical test current			
Continuity:		2.00V at rate fully open circuit voitage source, commercipitaties content Buzzer sourds between 200 and 2000, Response time <100/s				
Display:		Solo 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					
Data Storage:	43.000 measurements					
Sampling Time:		0.05 (0.2 for Temp and Ω, 0.4 for Hz, 1 for C), 1, 20, 40, 60, 120, 240 and 480 seconds				
	ure: 32 to 122°F (0 to 50					
Storage Temperature						
Relative Humidity:						
Power Supply:		9V alkaline battery				
Power consumption:						
Dimensions:		7.32 x 3.42 x 1.39" (186 x 87 x 36mm)				
Weight:		0.75lb (340g)				

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