Metrix+™
Innovative Excellence

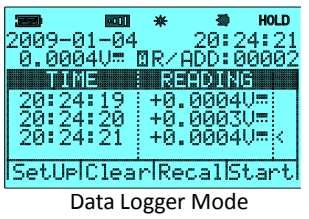
50000 Count Digital Modern Multimeter

Features *Metrix+* DM620 50000 Count Programmable Data Logger DMM

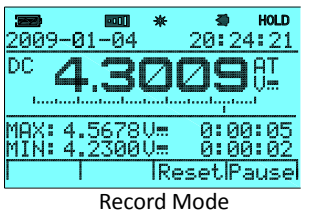




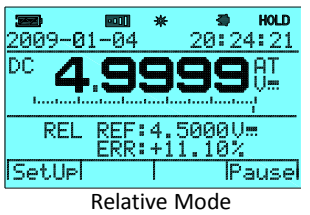
- International Safety Standard IEC 1010-1(EN 61010-1:1993 Over Voltage Category II & III)
- 0.05% of basic accuracy
- DM620: 50,000 count of high resolution
- Isolated USB Interface & Isolated USB Battery Charger
- Data Logger Memory: 18,000 Points
- Function and ranges may be controlled from PC via USB.
- True RMS measurements for AC
- Full Auto Range
- Auto Calibration
- Auto power off
- Data holds and run mode
- Low battery indication
- Overload protection for all functions (Including 10A)
- Record (MIN, MAX, AVG), Relative (REF, DEF,ERR) mode
- Compare (GO-NOGO) Mode and Trend Plot
- Real Time Clock and Date
- Multi display & analog bar graph
- Back light display
- AC, DC Voltage measurement
- 10 MHz frequency counter
- Period, Duty cycle measurement
- 20M resistance and Capacitance measurement
- Continuity and Diode test
- Temperature (°C/°F) using “K” type thermocouple
- Room temperature without any temperature probe
- AC, DC Amperes measurement



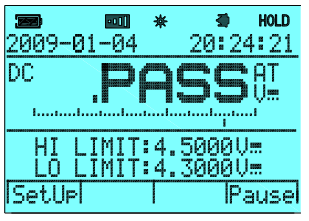
Data Logger Mode



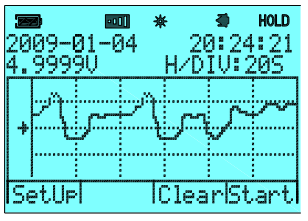
Record Mode



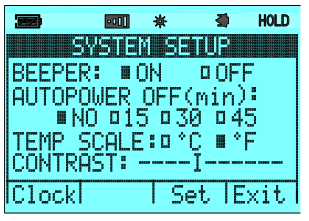
Relative Mode



Compare Mode



Trend Plot mode



Setup Mode

Electrical Specifications

International Safety Standard		IEC 1010-1(EN 61010-1:1993 Over Voltage Category II & III)			
	Range	Resolution	Accuracy	Impedance	Max. Input
DC V	500 mV	0.01mV	±(0.05%+5d)	10 MΩ	1000 VDC or 750 VAC rms
	5 V	0.0001V			
	50 V	0.001V			
	500 V	0.01V			
	1000 V	0.1V			
	Range	Accuracy		Impedance	Max. Input
		45~450Hz	450~10kHz		
AC V	500 mV	±(0.5%+20d)	±(2%+20d)	10 MΩ	1000 VDC or 750 VAC rms
	5 V				
	50 V				
	500 V				
	1000 V				

Resistance	Range	Resolution	Accuracy		Protection	
	500 Ω	0.01 Ω	±(0.2%+5d)		1000 VDC or 750 VAC rms	
	5 kΩ	0.0001 kΩ				
	50 kΩ	0.001 kΩ				
	500 kΩ	0.01 kΩ				
	5 MΩ	0.0001 MΩ				
	20 MΩ	0.01 MΩ	±(1%+10d)			
Continuity	Range	Resolution	Threshold		Protection	
	5 kΩ	0.0001 kΩ	Less than 100 ohm			
Diode	Range	Resolution	Max. Test Current	Open circuit voltage	Protection	
	3 V	0.001V	Approx. 2.5 mA	2V	600V DC or AC Peak	
Capacitance	Range	Resolution	Accuracy		Protection	
	500 nF	0.1 nF	±(4%+15d)		600V DC or AC Peak	
	5 uF	0.001 uF				
	50 uF	0.01 uF				
	500 uF	0.1 uF				
Frequency	Range	Resolution	Accuracy		Protection	
	1000Hz	0.001Hz	±(0.05%+2d)		±250V	
	10kHz	0.0001kHz				
	100kHz	0.001kHz				
	1MHz	0.00001MHz				
	10MHz	0.0001MHz				
	100MHz	0. 001MHz	Unspecified			
Duty cycle	Range	Resolution	Accuracy	Input Frequency	Max. Input	
	100%	0.1%	±(0.1%+2d)	Less than 1kHz		
Temperature	Range	Resolution	Accuracy		Protection	
	1200°C	1°C	±(5%+3d)		600V DC or AC Peak	
	2192°F	1°F	°F = 32 + (9/5 x °C)			
Period	Range	Resolution	Accuracy		Protection	
	1 uS	0.001uS	±(0.05%+2d)		±250V	
	10 uS	0.01uS				
	100 uS	0.1uS				
	1 mS	0.001mS				
	10 mS	0.01mS				
	100 mS	0.1mS				
	1 S	0.001S				
DC	Range	Resolution	Accuracy		Max. Burden	Protection
mA	50 mA	0.001mA	±(0.5+5d)	500mV	0.5A/ 600V	
	500 mA	0.01mA				
A	5 A	0.0001A	±(0.7%+5d)		10A/ 600V	
	10 A	0.001A				
AC	Range	Resolution	Accuracy		Max. Burden	Protection
mA	50 mA	0.001mA	±(0.5%+5d)	500mV	0.5A/ 600V	
	500 mA	0.01mA				
A	5 A	0.0001A	±(0.75%+5d)		10A/ 600V	
	10 A	0.001A				
General	Power Requirement	3.7V Li-ion Battery Pack				
	Battery Life Time	32 hrs typ.				
	Dimensions / Weight	200 x 105 x 34 mm				
	Standard Accessories	Manual, Test Leads, Battery(Installed), Carrying Case, USB Cable, Demonstration S/W, Temperature probe & adaptor				
	** The specification may be changed to improve the product quality without notifying the customers.					