

Programmable LOGGER Digital Multimeter

DM620

■ Fetures

- 0.05% of basic accuracy, 50,000 count of high resolution
- 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 and "keep on" mode
- 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
- All inputs protected (Including 10A)
- Clock and Date
- Multi display measurements
- Back light display
- AC, DC Voltage measurement
- 10 MHz frequency counter
- Period, Duty cycle measurement
- Pulse width measurement (mS-PULSE)
- 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



■ Technical Specification

DC V	Range	Resolution	Accuracy		Impedance	Max. Input
	500.0mV	0.01V	$\pm(0.05\%+5d)$		10 M Ω	1000 VDC or 750 VAC rms
	5.000V	0.0001V				
	50.00V	0.001V				
	500.0V	0.01V				
1000V	0.1V					
AC V	Range	Resolution	Accuracy		Impedance	Max. Input
	500.0mV	0.01V	45~450Hz	450~5kHz	10 M Ω	1000 VDC or 750 VAC rms
	5.000V	0.0001V	$\pm(0.75\%+20d)$			
	50.00V	0.001V				
	500.0V	0.01V				
1000V	0.1V					
Resistance	Range	Resolution	Accuracy		Protection	
	500.0 Ω	0.01 Ω	$\pm(0.2\%+5d)$		1000 VDC or 750 VAC rms	
	5.000 k Ω	0.0001 k Ω				
	50.00 k Ω	0.001 k Ω				
	500.0 k Ω	0.01 k Ω				
	5.000 M Ω	0.0001 M Ω	$\pm(1\%+10d)$			
20.0 M Ω	0.01 M Ω					

■ Technical Specification - continued

Continuity	Range		Resolution	Threshold		Protection
	1 k Ω		0.0001 k Ω	Less than 100 ohm		
Diode	Range		Resolution	Max. Test Current	Open circuit voltage	Protection
	2 V		0.001V	Approx. 2.5mA	2V	600V DC or VAC Peak
Capacitance	Range		Resolution	Accuracy		Protection
	5.000 nF		0.001 nF	$\pm(4\%+15d)$		600V DC or VAC Peak
	50.00 nF		0.01 nF			
	500.0 nF		0.1 nF			
	5.000 uF		0.001 uF			
	50.00 uF		0.01 uF			
500.0 uF		0.1 uF	$\pm(4\%+15d)$			
Frequency	Range		Resolution	Accuracy		Protection
	100Hz		0.001Hz	$\pm(0.05\%+2d)$		$\pm 250V$
	1kHz		0.01Hz			
	10kHz		0.0001kHz			
	100kHz		0.001kHz			
	1MHz		0.01kHz	Unspecified		
10MHz		0.1kHz				
Duty cycle	Range	Resolution		Accuracy	Input Frequency	Max. Input
	100%	0.10%		$\pm(0.05\%+2d)$	Less than 1kHz	
Temperature	Range	Resolution		Accuracy		Protection
	1200°C	1°C		$\pm(5\%+3d)$		600 V DC or AC Peak
	2192°F	1°F		$^{\circ}F = 32 + (9/5 \times ^{\circ}C)$		
Period	Range	Resolution		Accuracy		Protection
	1 uS	0.001uS		$\pm(0.05\%+2d)$		$\pm 250V$
	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	500 mA	0.01mA	$\pm(0.05\%+5d)$	400 mV	0.5A/ 600V
	A	10 A	0.001A			10A/ 600V
AC	Range	Resolution		Accuracy	Max. Burden	Protection
	mA	500 mA	0.01mA	$\pm(0.75\%+5d)$	400 mV	0.5A/ 600V
	A	10 A	0.001A			10A/ 600V
General	Power Requirement			1.5V x2 alkaline Battery		
	Battery Life Time			32 hrs typ. with alkaline battery.		
	Dimensions / Weight			200 x 105 x 34 mm		
	Standard Accessories			Manual, Test Leads, Battery(Installed), Carrying Case, Rubber Holster		
	Optional Accessories			USB Cable, Demonstration Software, Temperature probe & adaptor		

** The specification may be changed to improve the product quality without notifying the customers.