Digital Multimeter

MODEL : DM 702

Accessories

1 User's manual, 1 Set of test leads, Carry Case.

Technical Specifications

General specifications

Environment conditions	:	600V CAT III and 1000V CAT II.
Pollution Degree	:	2, Altitude < 2000m.
Operating temperature	:	0°C to 40°C (32°F to 104°F), (<80% RH, non-condensing)
Storage temperature	:	-10 ~ 50°C (14°F to 122°F), (<70% RH, battery removed)
Temperature Coefficient	:	0.1 × (specified accuracy) /°C (<18°C or > 28°C)

MAX Voltage between terminals and earth ground : 750V AC rms or 1000V DC.

Fuse protection	:	mA : F 200mA /250V ∅5 × 20, 10A : Unfused
Display	:	LCD 1999 counts, updates 2-3/sec.
Over Range indication	:	LCD will display "1"
Low battery indication	:	The " - + " is display on the LCD.
Polarity indication	:	"-" displayed automatically.
Power source	:	4.5V ⎓
Battery type	:	AAA 1.5V
Dimensions	:	158(L) × 74(W) × 31(H) mm.
Weight	:	220g. Approx. (battery included)

CAMBRIDGE INSTRUMENTS & ENGINEERING CO.

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Measurement Specifications

Accuracy : ±(% of reading + number of digits) at 18°C to 28°C (64°F to 82°F) with relative humidity to 80%
(Accuracy is specified for a period one year after calibration)

DC VOLTAGE		
Range	Resolution	Accuracy
200mV	0.1mV	± 0.5% of rdg ±1digit
2V	1mV	
20V	10mV	
200V	100mV	
1000V	1V	± 0.8% of rdg ±2digits
Input Impedance : 10MΩ. Max. input voltage : 250V dc or ac rms for 200mV range and 1000V dc or peak ac for other ranges.		

AC VOLTAGE		
Range	Resolution	Accuracy
2V	1mV	± 0.8% of rdg ±3 digits
20V	10mV	
200V	100mV	
750V	1V	± 1.2% of rdg ±3 digits
Input Impedance : 10MΩ Max. input voltage : 250V dc or ac rms for 200mV range and 1000V dc or 750V ac rms for other ranges. Frequency Range : 4 Ohz-1kHz Indication : Average (rms of sine wave)		

DC CURRENT		
Range	Resolution	Accuracy
200µA	0.1µA	± 0.8% of rdg ±1digit
2mA	1µA	
20mA	10µA	
200mA	100µA	± 1.2% of rdg ±1digit
10A	10mA	± 2.0% of rdg ±5 digits
Overload protection : F200mA/250V fuse (10A range unfused). Max input Current : mA: 200mA, dc or 200mA ac rms 10A:10A continuous, 20A 15 Sec. MAX.SS		

AC CURRENT		
Range	Resolution	Accuracy
2mA	1µA	± 1.2% of rdg ± 3 digits
20mA	10µA	
200mA	0.1mA	± 2.0% of rdg ±3 digits
10A	10mA	± 3.0% of rdg ±7 digits
Overload Protection : F200mA/ 250V fuse (10A range unfused) Max input Current : mA: 200Ma dc or 200mA ac rms 10A:10A continuous, 20A 15 Sec. MAX. Frequency Range : 40 Hz to 1kHz. Indication : Average (rms of sine wave)		

RESISTANCE		
Range	Resolution	Accuracy
200Ω	0.1Ω	± 0.8% of rdg ±3digits
2KΩ	1Ω	± 0.8% of rdg ±1digits
20KΩ	10Ω	
200 KΩ	100Ω	
2 MΩ	1KΩ	
20MΩ	10KΩ	± 1.0% of rdg ±2digits
Overload Protection : 250V dc or 250Vac rms.		

Diode and Audible Continuity Test		
Range	Description	Test Condition
•)))	Built-in buzzer sounds if Resistance is less than approx. 50Ω	Open Circuit Voltage approx 2.8 Volts.
	Display read approx. Forward voltage of diode	Forward DC Current approx. 1mA. Reversed DC Voltage approx 2.8 Volts.
Overload Protection : 250 Vdc or 250V ac rms.		

Transistor

Range	Description	Test Condition
hFE	Display read approximate hFE value (0-1000) of transistor under test (ALL TYPE)	Base Current approx. 10µA Vce approximately 2.8 V

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Note ; Inspection if any at our works will be carried out as per facility available only.