



**MODEL NO. 90**  
**4½ DIGITS 19999 COUNTS**  
**DIGITAL MULTIMETER**

Indication on LCD Display for correct terminal Insertion of Test Leads to avoid wrong connection.

**INCREASED SAFETY & PROTECTION**



**Technical Specification**

**AC Voltage**

Range	Resolution	Accuracy
2 V	0.0001 V	±(0.5%rdg+10dgts)
20 V	0.001 V	
200 V	0.01 V	±(1%rdg+10dgts)
1000 V	0.1 V	

Input impedance : 2M  
**Overload protection :**  
 200mV range - 250 AC/DC  
 1000V range - 1000Vrms

**DC Voltage**

Range	Resolution	Accuracy
200m V	0.01m V	±(0.05%rdg+3dgts)
2 V	0.0001 V	±(0.1%rdg+3dgts)
20 V	0.001 V	
200 V	0.01 V	±(0.15%rdg+5dgts)
1000 V	0.1 V	

Input impedance : 10M  
**Overload protection :**  
 200mV range - 250 AC/DC  
 1000V range - 1000Vrms

**ACA**

Range	Resolution	Accuracy
20 mA	0.001 mA	±(0.8%rdg+10dgts)
200 mA	0.01 mA	±(1.2%rdg+10dgts)
20 A	0.001 A	±(2.5%rdg+10dgts)

**Overload protection :**  
 0.5A/250V fuse for 200 mA range  
 20A unfused max. 10 sec.

**DCA**

Range	Resolution	Accuracy
2 mA	0.0001 mA	±(0.5%rdg+5dgts)
200 mA	0.01 mA	±(0.8%rdg+5dgts)
20 A	0.001 A	±(2%rdg+10dgts)

**Overload protection :**  
 0.5A/250V fuse for 200 mA range  
 20A unfused max. 10 sec.

**Capacitance**

Range	Resolution	Accuracy
2 nF	0.0001 nF	±(3%rdg+40dgts)
20 nF	0.001 nF	±(4%rdg+10dgts)
2 F	0.0001 F	
20 F	0.001 F	

**Overload protection :** 250V rms  
 Test Frequency : 400Hz/40mV rms

**Ohms**

Range	Resolution	Accuracy
200	0.01	±(0.5%rdg+10dgts)
2 k	0.0001 k	±(0.3%rdg+1dgts)
20 k	0.001 k	
2 M	0.0001 M	±(5% rdg+10dgts)
200 M	0.01 M	

**Overload protection :** 250V rms

**Frequency**

Range	Resolution	Accuracy
20kHz	1Hz	±(1.5%rdg+3dgts)

Overload protection 250V rms

**Temperature**

Range	Resol.	Accuracy
~40°C~0°C	0.1°C	±(3%rdg+40dgts)
0°C~400°C		±(1%rdg+30dgts)
400°C~1000°C		±(2%rdg+50dgts)

**Overload protection :** 250V rms

**Feature :-**

- Display 4½ digit LCD display (19999 counts)
- Large LCD (53 mm) for clear reading
- Digit size : 20 mm (H)
- CE Approved
- AC/DC voltage, AC/DC current, Resistance, Capacitance, Temperature, Frequency, Diode, Continuity, Transistor function.
- Over Range indication : '1' Most significant digit blanks.
- DATA HOLD facility
- Low Battery Indication.
- Dimension : 174mm x 88mm x 39mm
- Weight : Approx 380 grams.
- Accessories : Test leads, Carrying case, User Manual, Battery Installed, Protective Holster, Thermocouple Plug, Test Clip.

**Transistor Test**

Range	Test Voltage	Basic DC Current
0 to 1000	2.8 V	10 A

**Overload Protection :** 250V rms

**Continuity Test**

<b>Audible Buzzer</b>	Less than 100
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**Overload Protection :** 250V DC or AC rms

**Diode Test**

Test Current	Open Circuit Volts
1.0mA	3.3V DC Typical

**Overload Protection :** 250V DC or AC rms



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