

User's Guide

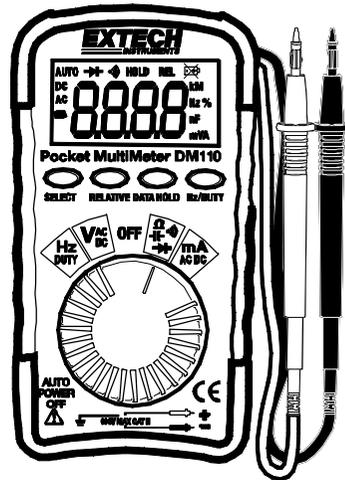
**EXTECH**  
INSTRUMENTS

A FLIR COMPANY

Pocket Multimeter

4000 Count Autoranging DMM

Model: DM110



**Safety**

**International Safety Symbols**



This symbol, adjacent to another symbol or terminal, indicates the user must refer to the manual for further information.



This symbol, adjacent to a terminal, indicates that, under normal use, hazardous voltages may be present.



Double insulation

**Safety Precautions**

1. Improper use of this meter can cause damage, shock, injury or death. Read and understand this users manual before operating the meter.
2. Make sure any covers or battery doors are properly closed and secured.
3. Always disconnect the test leads from any voltage source before replacing the battery or fuses.
4. Do not exceed the maximum rated input limits.
5. Use great care when making measurements if the voltages are greater than 25VAC rms or 35VDC. These voltages are considered a shock hazard.
6. Always discharge capacitors and remove power from the device under test before performing Capacitance, Diode, Resistance or Continuity tests.
7. Remove the battery from the meter if the meter is to be stored for long periods.

**Specifications**

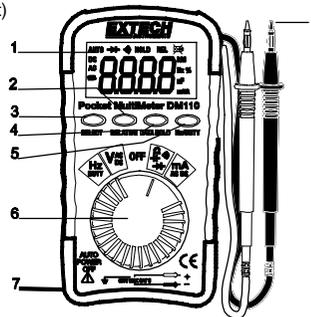
**Electrical Specifications**

Function	Range	Accuracy
DC Voltage	400.0mV	±(0.7% rdg + 3d)
	4.000V, 40.00V,	±(1.0% rdg + 3d)
	400.0V, 500V	±(1.3% rdg + 3d)
AC Voltage (40-400Hz)	4.000V, 40.00V	±(1.0% rdg + 10d)
	400.0V, 500V	±(2.3% rdg + 5d)
DC Current	40.00mA	±(2.0% rdg + 5d)
	400.0mA	
AC Current (50-60 Hz)	40.00mA	±(2.5% rdg + 10d)
	400.0mA	
Resistance	400.0Ω, 4.000kΩ,	±(2.0% rdg + 5d)
	40.00kΩ, 400.0kΩ	
	4.000MΩ	
Capacitance	4.000nF	±(5.0% rdg + 0.3nF)
	40.00nF	±(5.0% rdg + 30d)
	400.0nF	±(3.0% rdg + 15d)
	4.000μF, 40.00μF,	±(10.0% rdg + 15d)
200.0μF		
Frequency	9.999Hz, 99.99Hz, 999.9Hz, 9.999kHz, 99.99kHz, 999.9kHz, 10MHz	±(2.0% rdg + 5d)
Duty Cycle	0.1-99%	±(2.0% rdg + 5d)

**Description**

**Meter Description**

1. 3 3/4 Digit (4000 count)
2. RELATIVE button
3. SELECT button
4. DATA HOLD button
5. Hz/DUTY button
6. Function switch
7. Rubber holster
8. Test leads



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<b>Max input voltage</b>	500V AC/DC
<b>Input Sensitivity, (Frequency Ranges)</b>	10Vrms min. <9.999KHz 40Vrms min. >99.99KHz
<b>Diode Test</b>	Test current 1mA max., open circuit voltage of 1.5V typical
<b>Continuity Check</b>	Audible signal if the resistance is < 60Ω
<b>Display</b>	4000 count 3 3/4 digit LCD
<b>Over range indication</b>	LCD displays "OL"
<b>Polarity</b>	Minus (-) sign for negative polarity.
<b>Low Battery Indication</b>	"BAT" symbol indicates low battery condition.
<b>Battery</b>	CR2032 3V Lithium
<b>Operating Temperature</b>	0°C to 40°C (32°F to 104°F)
<b>Storage Temperature</b>	-10°C to 50°C (14°F to 122°F)
<b>Weight</b>	50g (1.7oz)
<b>Size</b>	108x56x11.5mm (4.25x2.2x.5")
<b>Standard</b>	IEC1010 CAT II 600V Pollution degree II, CE Approved

