

User's Guide

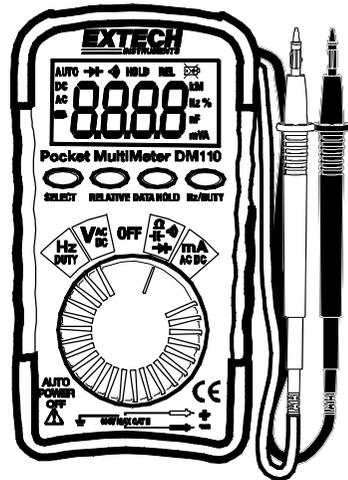
EXTECH
INSTRUMENTS

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

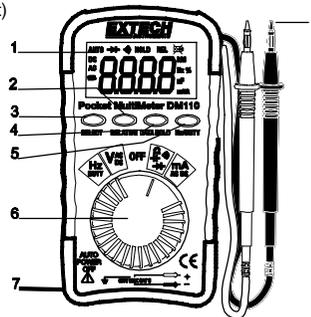
Electrical Specifications

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

