

# PM-100 POCKET MULTIMETER

TESTING | TROUBLESHOOTING | ACCURACY

## Product Features:

Small and perfectly formed with all the basic measurement features you're likely to need, including fully automatic operation by default: the Pocket Multimeter (PM-100) from Tempo Communications is a great addition to any toolbox.

### Carry it everywhere.

Truly pocket sized, yet immensely useful and built to international safety standards, the PM-100 will easily become your go-to tool for quickly checking electrical supplies and basic continuity.

Supplied in a convenient zipper case, the only control on this Pocket Multimeter is a single push button that switches the unit on and off, and cycles through the various tests:

1. Powers up in "automatic mode"
  - AC voltage
  - DC voltage
  - Resistance
2. Manual selection of each function
  - Continuity
  - Electric Field (EF) (voltage detector)
  - Volts AC
  - Volts DC
3. 6000 Count large digit LCD
  - Resistance
  - Frequency
  - Capacitance



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# PM-100 POCKET MULTIMETER

## SPECIFICATIONS:

Display:	6000-count LCD
Polarity:	Automatic
Display Update Rate:	5 per second
Temperature Coefficient:	Nominal 0.15 x (specified accuracy) per °C below 18 °C or above 28 °C
Intelligent Automatic Power Off:	After 3 minutes of inactivity (approximately)
Noise Rejection:*	Common Mode Rejection Ratio: > 60 dB from 0 Hz to 60 Hz when measuring ACV Common Mode Rejection Ratio: > 100 dB at 0 Hz, 50 Hz, and 60 Hz when measuring DCV Normal Mode Rejection Ratio: > 30 dB at 50 Hz and 60 Hz when measuring DCV
Operating Conditions:	Temperature: 0 °C to 40 °C (32 °F to 104 °F)
Relative Humidity (non-condensing):	80% maximum for temperatures up to 31 °C (88 °F), decreasing linearly to 50% maximum at 40 °C (104 °F)
Altitude:	2000 m (6500') maximum
Pollution Degree:	2
Storage Conditions:	-20 °C to 60 °C (-4 °F to 140 °F), 0% to 80% relative humidity (non-condensing)
Battery:	3 V standard button battery (IEC-CR2032; ANSI-NEDA-54004LC)
Low Battery:	Below 2.4 VDC
Overvoltage Protection:	450 VDC/VAC RMS, 50/60 Hz
Measurement Categories:	Cat III, 300 V

\* Noise rejection is the ability to reject unwanted signals, or noise.

- Normal mode voltages are AC signals that can cause inaccurate DC measurements. NMRR (Normal Mode Rejection Ratio) is a measure of the ability to filter out these signals.
- Common mode voltages are signals present at the COM and + input terminals, with respect to ground, that can cause digit rattle or offset in voltage measurements. CMRR (Common Mode Rejection Ratio) is a measure of the ability to filter out these signals.

## ACCURACY:

### FREQUENCY

Range	Accuracy	Specified at
10.00 Hz to 30.00 kHz	± (0.5% + 4d)	less than 20 V sine RMS

### DCV

Range	Accuracy
6.000 V	± (0.5% + 0.003 V)
60.00 V	± (1.0% + 0.05 V)
450.0 V	± (1.2% + 0.5 V)

### RESISTANCE (AUTO V-Ω MODE)

Range	Accuracy
6.000 kΩ	± (1.2% + 0.006 kΩ)*
60.00 kΩ	± (1.0% + 0.04 kΩ)
600.0 kΩ	± (1.0% + 0.4 kΩ)
6.000 MΩ	± (2.0% + 0.004 MΩ)

### CAPACITANCE

Range	Accuracy
100.0 nF	± (3.5% + 0.6 nF)
1000 nF	± (3.5% + 6 nF)
10.00 μF	± (3.5% + 0.06 μF)
100.0 μF	± (3.5% + 0.6 μF)

### ACV

Range (50 to 60 Hz)	Accuracy
6.000 V	± (1.5% + 0.005 V)
60.00 V	± (1.5% + 0.05 V)
450.0 V	± (1.5% + 0.5 V)

### WIRELESS ELECTRIC FIELD DETECTION (EF)

Typical Voltage	Bar graph indication
15 V to 55 V	-
30 V to 85 V	--
45 V to 145 V	---
75 V to 190 V	----
above 105 V	-----



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