## 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





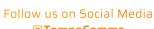
**Renewed** Vision. **Innovation** Forward.















# 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)		
	Common Mode Rejection Ratio: > 60 dB from 0 Hz to 60 Hz when measuring ACV		
Noise Rejection:*	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	80% maximum for temperatures up to 31 °C (88 °F),		
(non-condensing):	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 ΜΩ	± (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		



**Renewed** Vision. **Innovation** Forward.









