# 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 II, 450 V<br>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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