



PD-184 HIGH PRECISION TRUE RMS MULTIMETERS

INCLUDING BLUETOOTH, DATALOGGER, VOICE
AND TEMPERATURE MEASUREMENT



VOICE MEASURES

Allows off-site measurements, leaving the screen unattended.



BUILT-IN DATALOGGER

The multimeter stores and sends measurements to the device.



THREE TOOLS IN ONE

Datalogger, multimeter and temperature meter.



MULTIPLE CONNECTIONS

A single multimeter can be connected to several devices.



DC ACCURACY: 0.05%

The most reliable measurements for industrial applications.

- ✓ **CC Voltage:** From 220 mV to 1000 V
- ✓ **AC Voltage:** From 220 mV to 750 V
- ✓ **DC Current:** From 220 μ A to 20 A
- ✓ **AC Current:** From 220 μ A to 20 A
- ✓ **Resistance:** From 220 Ω to 220 M Ω
- ✓ **Capacity:** From 22 nF to 220 mF

- ✓ **Frequency:** From 22 Hz to 220 MHz
- ✓ **Duty Cycle:** From 0.1% to 99.9%
- ✓ **Temperature:** From -50 $^{\circ}$ C to 400 $^{\circ}$ C
- ✓ **True RMS**
- ✓ **Diode and Continuity** test
- ✓ **Transistor h_{FE}** test

- ✓ Data hold
- ✓ Max/Min value
- ✓ Datalogger
- ✓ Voice measurements
- ✓ Bluetooth link to mobile devices (requires Android 7.0 or newer)

Minimum requirements



Android v7.0



Bluetooth v4.0

[MORE DETAILS](#)

PD-184

Minimum requirements



Android
v7.0



Bluetooth
v4.0

| SPECIFICATIONS PD-184 TRMS INDUSTRIAL MULTIMETER | | | |
|--|---|-------------------|---|
| Function | Measurement margin | Resolution | Accuracy |
| CC Voltage | 220 mV | 0.01 mV | ± (0.05% + 5 dig.) |
| | 2.2 V | 0.1 mV | ± (0.05% + 5 dig.) |
| | 22 V | 1 mV | ± (0.01% + 2 dig.) |
| | 220 V | 10 mV | ± (0.01% + 2 dig.) |
| | 1000 V | 0.1 V | ± (0.1% + 5 dig.) |
| AC Voltage | 220 mV | 0.01 mV | ≤ 1 kHz: ± (1.0% + 10 dig.) / > 1 kHz: ± (1.5% + 50 dig.) |
| | 2.2 V | 0.1 mV | ≤ 1 kHz: ± (0.8% + 25 dig.) / > 1 kHz: ± (1.2% + 50 dig.) |
| | 22 V | 1 mV | ≤ 1 kHz: ± (0.8% + 25 dig.) / > 1 kHz: ± (1.2% + 50 dig.) |
| | 220 V | 10 mV | ≤ 1 kHz: ± (0.8% + 25 dig.) / > 1 kHz: ± (2.0% + 50 dig.) |
| | 750 V | 0.1 V | ≤ 1 kHz: ± (1.2% + 50 dig.) / > 1 kHz: ± (3.0% + 50 dig.) |
| CC Current | 220 µA | 0.01 µA | ± (0.5% + 10 dig.) |
| | 2200 µA | 0.1 µA | ± (0.5% + 10 dig.) |
| | 22 mA | 1 µA | ± (0.5% + 10 dig.) |
| | 220 mA | 10 µA | ± (0.8% + 10 dig.) |
| | 20 A | 1 mA | ± (2% + 25 dig.) |
| AC Current | 220 µA | 0.01 µA | ≤ 1 kHz: ± (0.8% + 10 dig.) / > 1 kHz: ± (1.2% + 25 dig.) |
| | 2200 µA | 0.1 µA | ≤ 1 kHz: ± (0.8% + 10 dig.) / > 1 kHz: ± (1.5% + 50 dig.) |
| | 22 mA | 1 µA | ≤ 1 kHz: ± (1.2% + 10 dig.) / > 1 kHz: ± (1.5% + 50 dig.) |
| | 220 mA | 10 µA | ≤ 1 kHz: ± (1.2% + 10 dig.) / > 1 kHz: ± (1.5% + 50 dig.) |
| | 20 A | 1 mA | ≤ 1 kHz: ± (1.5% + 10 dig.) / > 1 kHz: ± (2.0% + 50 dig.) |
| Resistance | 220 Ω | 0.01 MΩ | ± (0.5% + 30 dig.) |
| | 2.2 kΩ | 0.1 Ω | ± (0.5% + 10 dig.) |
| | 22 kΩ | 1 Ω | ± (0.5% + 10 dig.) |
| | 220 kΩ | 10 Ω | ± (0.5% + 10 dig.) |
| | 2.2 MΩ | 100 Ω | ± (0.8% + 10 dig.) |
| | 22 MΩ | 1 kΩ | ± (1.5% + 10 dig.) |
| Capacity | 22 nF | 1 pF | ± (3% + 5 dig.) |
| | 220 nF | 10 pF | ± (3% + 5 dig.) |
| | 2.2 µF | 100 pF | ± (3% + 5 dig.) |
| | 22 µF | 1 nF | ± (3% + 5 dig.) |
| | 220 µF | 10 nF | ± (3% + 5 dig.) |
| Frequency | 2.2 mF | 100 nF | ± (4% + 10 dig.) |
| | > 220 mF | N/A | N/A |
| | 22 Hz | 0.01 Hz | ± (0.1% + 4 dig.) |
| | 220 Hz | 0.1 Hz | ± (0.1% + 4 dig.) |
| | 22 kHz | 1 Hz | ± (0.1% + 4 dig.) |
| Duty cycle | 220 kHz | 10 Hz | ± (0.1% + 4 dig.) |
| | 2.2 MHz | 1 kHz | ± (0.1% + 4 dig.) |
| | 22 MHz | 10 kHz | ± (0.1% + 4 dig.) |
| | > 220 MHz | N/A | N/A |
| | From 5% to 94.9% (typ value: $V_{RMS} = 1 V, f = 1 kHz$) | 0.1% | ± (1.2% + 3 dig.) |
| From 0.1% to 99.9% ($\geq 1 kHz$) | 0.1% | ± (2.5% + 3 dig.) | |
| Temperature | From -50 °C to 400 °C | 0.1 °C | ± (1.0% + 5 dig.) |
| | From -58 °F to 752 °F | 0.1 °F | ± (1.2% + 6 dig.) |

| | | | | | |
|---------------------------|--------------------|------------------------|-------|--------------|--|
| Screen | 21999 counts | Auto power off warning | ✓ | LCD size | 69 x 52 mm |
| Frequency response | 40 Hz to 10.000 Hz | Low battery indicator | ✓ | Visible area | 67 x 46 mm (effective area 66 x 45 mm) |
| Sampling rate | 3 samples / s | Data hold | ✓ | Battery | 3 V (1.5 V x 2) |
| Auto Range | ✓ | Relative measurement | ✓ | Dimensions | 85 x 185 x 30 mm |
| Offline recording | ✓ | Max/Min value | ✓ | Weight | 0.32 kg |
| Recording period | 168 hours (7 days) | Bluetooth | ✓ | Accessories | Multimeter lead, temperature probe, multifunction test bench, alligator clip, soft bag and quick reference guide |
| Record length | 10,000 points | Backlight LCD | ✓ | | |
| True RMS | ✓ | Graph | ✓ | | |
| Diode and Continuity test | ✓ | Input protection | ✓ | | |
| hFE transistor test | ✓ | Input impedance | 10 MΩ | | |

DESIGN AND SPECIFICATIONS ARE SUBJECT TO CHANGES WITHOUT PRIOR NOTICE 01-21