



PD-184 HIGH PRECISION TRUE RMS MULTIMETERS

INCLUDING BLUETOOTH, DATALOGGER, VOICE
AND TEMPERATURE MEASUREMENT

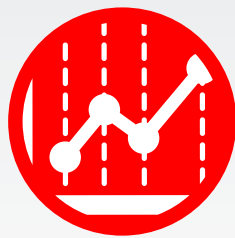


No.	Func	Value	Unit
111	DCmV	339.3	mV
112	DCmV	339.2	mV
113	DCmV	339.1	mV
114	DCmV	339.0	mV
115	DCmV	338.9	mV
116	DCmV	338.8	mV
117	DCmV	338.8	mV
118	DCmV	338.7	mV
119	DCmV	338.6	mV
120	DCmV	338.5	mV
121	DCmV	338.4	mV



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 test**
- ✓ **Continuity test**

- ✓ Data hold
- ✓ Max/Min value
- ✓ Datalogger
- ✓ Voice measurements
- ✓ Bluetooth link to mobile devices (requires Android 4.4 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.)
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% (≥ 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	Backlighted LCD	✓		
True RMS	✓	Graph	✓		
Diode test	✓	Input protection	✓		
Continuity test	✓	Input impedance	10 MΩ		

DESIGN AND SPECIFICATIONS ARE SUBJECT TO CHANGES WITHOUT PRIOR NOTICE 07-19