

Digital Multimeter PCE-HDM 7



Digital PCE-HDM 7 multimeter

**Digital multimeter for measuring current, voltage and resistance /Bluetooth interface / MAX function / Built-in flashlight
/Temperature measurement with thermocouple type K**

This digital multimeter PCE-HDM 7 is a compact measuring instrument with double molded plastic housing. The digital multimeter has a very large, high-contrast LC display. The PCE-HDM 7 digital multimeter is designed in CAT III / 600 V / EN61010-1. The multimeter has a measuring range automatic high measuring accuracy. The robust housing makes the PCE-HDM 7 digital multimeter a perfect measuring instrument for the service technician on site.

The multimeter is equipped with a Bluetooth interface, which can be read out via an app. In the app, various visualizations and a data logger are available. In order to be able to work with the digital multimeter even in low visibility and light conditions, the multimeter is equipped with a measuring point illumination and a display illumination.

- ▶ Capacity measurement
- ▶ MAX function
- ▶ Measuring point and display illumination
- ▶ Temperature measurement via thermocouple type K
- ▶ Data logger function via app
- ▶ Diode test

Specifications

General

Display	4000 digit LCD
Isolation	double, class II
Casing	Double molded body, IP67 (waterproof and dustproof)
Diode test	Test current maximum 1.5-mA no-load voltage 3V
Continuity test	Limit <50 Ω
Overload indicator	Display of "OL" in the display
Battery indicator	Display at low battery voltage
Polarity	Display of "-" in negative polarity
Measuring rate	2 measurements per second, nominal
Automatic shutdown	after about 15 minutes of inactivity
Input resistance	10 MΩ AC / DC
AC coupling	TRMS (50 ... 400 Hz)
Bandwidth	50 ... 400 Hz
Power supply	3 x 1.5V AAA battery
Fuse	10 A / 600V (5 x 20 mm)
Operating conditions	0 ... 40°C / 32 ... 104°F, <70% rel. humidity
Storage conditions	-10 ... 60°C / 14 ... 140°F, <80% rel. humidity
Operating altitude	2000 m / 6562 ft
Dimensions	147 x 68 x 50 mm / 5.8 x 2.7 x 2 in
Weight	318 g / < 1 lb
Security	UL 61010-1 V-3 CAT III 600V Degree of pollution 2

Measuring range	Resolution	Accuracy (% v.Mw.)
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Alternating current	4 A	1-mA	± 2.5% + 5 Dgt
	10 A	10-mA	± 2.5% + 5 Dgt

Overload protection: 10 A / 600V fuse

AC coupling: 50 ... 60 Hz

Direct current	4 A	1-mA	± 2% + 3 Dgt
	10 A	10-mA	± 2% + 3 Dgt

Overload protection: 10 A / 600V fuse

More information

Manual



More product info



Similar products



Subject to change

AC	4V	1 mV	± 1% + 5 Dgt
	40V	10 mV	± 1.2% + 5 Dgt
	400V	0.1V	± 1.5% + 5 Dgt
	600V	1V	± 1.5% + 5 Dg

Input protection: 600V DC or
600V AV RMS

Input resistance: 10 MΩ

AC Coupling: 50 ... 60 Hz

AC	4V	1 mV	± 1.5% + 5 Dgt
(low input resistance)	40V	10 mV	± 1.5% + 5 Dgt
	400V	0.1V	± 1.5% + 5 Dgt

All measuring ranges of the alternating voltage were specified with 5 ... 100% of
the measuring range

Input protection: 300V AC

RMS or 300V DC

Input resistance: approx. 3 kΩ

AC coupling: 50 ... 60 Hz

DC	400 mV	0.1 mV	± 1% + 8 Dgt
	4 V	1 mV	± 1% + 3 Dgt
	40V	10 mV	± 1% + 3 Dgt
	400V	0.1V	± 1% + 3 Dgt
	600V	1V	± 1.2% + 3 Dgt

Input protection: 600V DC or
600V AV RMS

Input resistance: 10 MΩ

DC	400 mV	0.1 mV	± 1.5% + 5 Dgt
(low input resistance)	4 V	1 mV	± 1.5% + 5 Dgt
	40V	10 mV	± 1.5% + 5 Dgt
	400V	0.1V	± 1.5% + 5 Dgt

Input protection: 300V AC

RMS or 300V DC

Input resistance: approx. 3 kΩ

Resistance	400 Ω	0.1 Ω	± 1.5% + 5 Dgt
	4 kΩ	1 Ω	± 1.5% + 5 Dgt
	40 kΩ	10 Ω	± 1.5% + 5 Dgt
	400 kΩ	100 Ω	± 1.5% + 5 Dgt
	4 MΩ	1 kΩ	± 2% + 10 Dgt
	40 MΩ	10 kΩ	± 2% + 10 Dgt

Input protection: 600V AC

RMS or 600V DC

Capacity	40 nF	0.01 pF	± 5% + 35 Dgt
	400 nF	0.1 pF	± 3% + 5 Dgt
	4 μF	0.001 μF	± 3% + 5 Dgt

Subject to change

40 μ F	0.01 μ F	$\pm 3\% + 5$ Dgt
400 μ F	0.1 μ F	$\pm 3\% + 5$ Dgt
4000 μ F	1 μ F	$\pm 5\% + 5$ Dgt

Input protection: 600V AC

RMS or 600V DC

Frequency

9,999 Hz	0.001 Hz	$\pm 1\% + 5$ Dgt
99.99 Hz	0.01 Hz	$\pm 1\% + 5$ Dgt
999.9 Hz	0.1 Hz	$\pm 1\% + 5$ Dgt
9,999 kHz	1 Hz	$\pm 1\% + 5$ Dgt
99.99 kHz	10 Hz	$\pm 1\% + 5$ Dgt
999.9 kHz	100 Hz	$\pm 1.2\% + 5$ Dgt
9,999 MHz	1 kHz	$\pm 1.2\% + 5$ Dgt

Input protection: 600V AC

RMS or 600V DC

Sensitivity: > 8V RMS

Duty cycle

1 ... 99%	0.1%	$\pm 1.2\% + 2$ Dgt
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Input protection: 600V AC

RMS or 600V DC

Pulse width: 0.1 ... 100 mS

Frequency range: 5 Hz ... 10 KHz

KHz

Sensitivity: > 8V RMS

-18 ...

Temperature (type K thermocouple)

760°C /	0.1°C /	$\pm 2\% + 5^\circ\text{C} / 9^\circ\text{F}$
-0.4 ...	0.18°F	
1400°F		

Input protection: 300V AC

RMS or 300V DC

Subject to change

