

Bluetooth Multimeter PCE-HDM 7-ICA

Digital PCE-HDM 7-ICA multimeter incl. ISO Calibration Certificate

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-ICA 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-ICA 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-ICA 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
- Incl. ISO calibration certificate

Specifications:

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
	UL 61010-1 V-3
Security	CAT III 600V Degree of pollution 2

	Measuring range	Resolution	Accuracy (% v.Mw.)
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			
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 Dgt
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
	40 μF	0.01 μF	± 3% + 5 Dgt
	400 μF	0.1 μF	± 3% + 5 Dgt
	4000 μF	1 μF	± 5% + 5 Dgt
Input protection: 600V AC RMS or 600V DC			
Frequency	9,999 Hz	0.001 Hz	± 1% + 5 Dgt
	99.99 Hz	0.01 Hz	± 1% + 5 Dgt
	999.9 Hz	0.1 Hz	± 1% + 5 Dgt
	9,999 kHz	1 Hz	± 1% + 5 Dgt
	99.99 kHz	10 Hz	± 1% + 5 Dgt
	999.9 kHz	100 Hz	± 1.2% + 5 Dgt

Input protection: 600V AC RMS or 600V DC Sensitivity: > 8V RMS	9,999 MHz	1 kHz	± 1.2% + 5 Dgt
Duty cycle Input protection: 600V AC RMS or 600V DC Pulse width: 0.1 ... 100 mS Frequency range: 5 Hz ... 10 KHz Sensitivity: > 8V RMS	1 ... 99%	0.1%	± 1.2% + 2 Dgt
Temperature (type K thermocouple) Input protection: 300V AC RMS or 300V DC	-18 ... 760°C / -0.4 ... 1400°F 0.1°C / 0.18°F ± 2% + 5°C / 9°F		

Delivery scope:

- 1 x Digital Multimeter PCE-HDM 7-ICA
- 2 x Measuring line
- 2 x 1.5V battery
- 1 x Storage bag
- 1 x Thermocouple type K
- 1 x Thermocouple adapter
- 1 x User manual
- 1 x ISO calibration certificate