

Digital Multimeter PCE-HVAC 6



PCE-HVAC 6 Digital multimeter

Up to 1000 A AC / DC / Non-contact voltage detection / Voltage measurement up to 600V. Temperature measurement via thermocouple / Robust rubberized housing

The digital multimeter PCE-HVAC 6 was specially developed for the tradesman in the field of heating, ventilation and air conditioning technology. This digital multimeter is ideal for many inspection and maintenance jobs in this area. This digital multimeter combines many gauges in one. It is possible with this meter to measure currents up to 1000 A in the DC and AC range via the clamp. Furthermore, voltages up to 600V AC / DC can be determined exactly. For quick and easy testing of electrical conductors, the digital multimeter is equipped with non-contact voltage detection.

The PCE-HVAC 6 digital multimeter can also measure resistors and capacitors. The diode test and continuity test complete the series of electrical measuring functions of the digital multimeter. As a special feature, the PCE-HVAC 6 clamp meter has 2 measuring inputs for Type-K thermocouples. With the help of these thermocouples, for example, the flow and return temperature of heating systems can be measured.

The digital multimeter was developed for the everyday life of a service worker. The sturdy plastic housing withstands shocks easily. A circumferential rubber coating on the housing of the PCE-HVAC 6 helps ensure that the digital multimeter is secure in the hand, even when the technician wears gloves. The display is equipped with an LED backlight, which facilitates reading in dark environments. As a further highlight, the clamp meter on the pliers tip has a measuring point illumination.

- ▶ Current measurement up to 1000 A
- ▶ Cover of the measuring sockets
- ▶ Voltage measurement up to 600V
- ▶ Temperature measurement via 2 thermocouples
- ▶ Display & measuring point illumination
- ▶ Non-contact voltage detection

Specifications

Currentmeasurement DC A

Measuringrange	Resolution	Accuracy (of measured value)
500 μ A	0.01 μ A	\pm (1% + 6digits)
5000 μ A	0.1 μ A	\pm (1% + 6digits)
50 A	0.01A	\pm (2.5% + 5digits)
1000 A	0.1 A	\pm (2.5% + 30digits)

Currentmeasurement AC A

Measuringrange	Resolution	Accuracy (of measured value)
500 μ A	0.01 μ A	\pm (1.5% + 30digits)
5000 μ A	0.1 μ A	\pm (1.5% + 30digits)
50 A	0.01A	\pm (2.5% + 30digits)
1000 A	0.1 A	\pm (2.8% + 30digits)

Note:For AC A measurements, the specification of accuracy refers to the range of 5% to 100% of the measuring range

Resistancemeasurement

Measuringrange	Resolution	Accuracy (of measured value)
500 Ω	0.01	\pm (1% + 9digits)
5 k Ω	0.0001	\pm (1% + 5digits)
50 k Ω	0.001	\pm (1% + 5digits)
500 k Ω	0.01	\pm (1% + 5digits)
5 M Ω	0.0001	\pm (3% + 10digits)
50 M Ω	0.001	\pm (3.5% + 10digits)

Voltagemasurement DC V

Measuringrange	Resolution	Accuracy (of measured value)
500 mV	0.01 mV	\pm (0.1 % + 8 Digit)
5 V	0.0001 V	\pm (0.1 % + 4 Digit)
50 V	0.001 V	\pm (0.1 % + 4 Digit)
500 V	0.01 V	\pm (0.1 % + 4 Digit)
600 V	0.1 V	\pm (0.5 % + 4 Digit)

Voltagemasurement AC V (50 Hz ... 100 Hz)

Measuringrange	Resolution	Accuracy (of measured value)
500 mV	0.01 mV	\pm (0.8 % + 9 Digit) (at 50 Hz / 60 Hz)
5 V	0.0001 V	\pm (1 % + 30 Digit)
50 V	0.001 V	\pm (1 % + 30 Digit)
500 V	0.01 V	\pm (1 % + 30 Digit)
600 V	0.1 V	\pm (1 % + 30 Digit)

More information

Manual



More product info



Similar products



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Note: For AC V measurements, the specification of accuracy refers to the range of 5% to 100% of the measuring range

Capacitance measurement

Measuring range	Resolution	Accuracy (of measured value)
500 nF	0.01	± (3.5% + 40 digits)
5000 nF	0.1	± (3.5% + 10 digits)
50 µF	0.001	± (3.5% + 10 digits)
500 µF	0.01	± (3.5% + 10 digits)
5mF	0.0001	± (5% + 10 digits)

Frequency measurement

Measuring range	Resolution	Accuracy (of measured value)
50 Hz	0.001	± (0.3% + 2 digits)
500 Hz	0.01	± (0.3% + 2 digits)
5 kHz	0.0001	± (0.3% + 2 digits)
50 kHz	0.001	± (0.3% + 2 digits)
500 kHz	0.01	± (0.3% + 2 digits)
5 MHz	0.0001	± (0.3% + 2 digits)
10 MHz	0.001	± (0.3% + 2 digits)

Duty cycle

Measuring range	Resolution	Accuracy (of measured value)
5% ... 95%	0.1	± (1% + 2 digits)

Pulse width: 100 µs ... 100 ms
 Frequency: 10 Hz ... 10 kHz

Temperature

Measuring range	Resolution	Accuracy (of measured value)
-100 ... 1000°C / -148 ... 1832°F	0.1	± (1% + 2.5°C / 3.5°F)

General technical data

Conductor diameter	Max. 48 mm / 1.9 in
Display	Two lines 50,000 digits
Continuity test	50 ohms / < 50 mA
Diode test	0.3 mA / 2.8 V DC
Battery indicator	Battery icon when battery low
Overrange	OL, if measuring range exceeded
Sample rate	2 Hz
Peak detection	> 1 ms
Thermocouple	Type K
Fuse	500 mA ceramic quick-acting
AC bandwidth (AC A / AC V)	50 Hz ... 400 Hz
AC measurement	True RMS
Operating conditions	5 ... 40°C / 41 ... 104°F, max. 80% RH at 31°C

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Storage conditions	-20... 60°C / -4 ... 140°F, max. 80% RH
Power supply	9V block battery
Automatic shutdown	After about 30 minutes
Dimensions (W x H x D)	230 x 76 x 40 mm / 9 x 3 x 1.6 in
Weight	315g / < 1 lb
Safety	IEC 1010-1 (2001): EN 61010-1 (2001) CAT III 600V CAT II 1000V Degree of pollution 2

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