

True RMS Industrial Digital Multimeter with OLED display ODM 12

Voltmeter PCE-ODM 12

Multimeter with OLED display / Measurement up to 1000V AC & DC / Incl. Rogowski coil up to 3000 A / MIN, MAX, relative and peak measurement / IP 67 Multimeter / Bluetooth BLE

This voltmeter has both automatic and manual range selection and a dual OLED display. The measured values are displayed on the OLED number display up to 6000 digits and in the bar graph. The readings can be read easily and changes can be displayed quickly. The voltmeter has full input protection and complies with protection class CATIII 1000V.

Simple and direct selection of the basic functions by means of pushbuttons and autom. Range selection for: DCV, ACV, DCA, ACA, ohms, diode, continuity, capacitance, frequency and temperature measurement functions. The voltmeter measures voltages up to 1000V AC / DC. The current can be measured directly up to 10 A AC / DC and over the Rogowski coil up to 3000 A AC. The case of the voltmeter is IP67 protected and thus perfectly usable in a robust everyday industrial environment.

- OLED display
- Minimum value and maximum value, peak level
- Hold function
- Relative value measurement
- Diode test
- Continuity tester
- Incl. current loop
- Automatic range selection
- Automatic shutdown
- Incl. Rogowski coil for 3000 A AC
- **Bluetooth**

Specifications:

Measuring function

DC voltage DC	Measuring range	Resolution	Accuracy
	60 mV	0.01 mV	± (0.5% from + 5 Dgt)
	600 mV	0.1 mV	± (0.5% from + 5 Dgt)
	6V	0.001 V	± (0.5% from + 5 Dgt)
	60V	0.01V	± (0.5% from + 5 Dgt)
	600V	0.1V	± (0.8% from + 5 Dgt)
	1000V	1 V	± (0.8% from + 5 Dgt)

AC voltage AC (TRMS)

Measuring range	Resolution	Accuracy
60 mV	0.01 mV	@ 50 ... 60 Hz:
600 mV	0.1 mV	± (1% from + 5 Dgt)
6V	0.001V	
60V	0.01V	@ 61Hz ... 1KHz:
600V	0.1V	± (3% from + 5 Dgt)
1000V	1V	

AC + DC TRMS

Measuring range	Resolution	Accuracy
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Tension	6V 60V 600V 1000V	0.001V 0.01V 0.1V 1V	@ 50Hz ... 1KHz: ± (3% from + 40 Dgt)
DC DC	Measuring range 600 µA 6000 µA 60-mA 600-mA 6 A 10 A	Resolution 0.1 µA 1 µA 0.01-mA 0.1-mA 0.001 A 0.01A	Accuracy ± (1% from + 5 Dgt) ± (1% from + 5 Dgt) ± (1% from + 5 Dgt) ± (1% from + 8 Dgt) ± (1.5% from + 8 Dgt) ± (1.5% from + 8 Dgt)
AC AC (TRMS)	Measuring range 600 µA 6000 µA 60-mA 600-mA 6 A 10 A	Resolution 0.1 µA 1 µA 0.01-mA 0.1-mA 0.001 A 0.01A	Accuracy ± (1.2% from + 5 Dgt) ± (1.2% from + 5 Dgt) ± (1.2% from + 5 Dgt) ± (1.2% from + 5 Dgt) ± (1.5% from + 8 Dgt) ± (1.5% from + 8 Dgt)
4 ... 20-mA %	-25 ... 125%	0.01%	± 50 digits
AC AC Over Rogowski coil	measuring range 30 A 300 A 3000 A	resolution 0.01A 0.1 A 10 A	accuracy ± (1.2% vMw + 10 Dgt)
Resistance	Measuring range 600 Ω 6 kΩ 60 kΩ 600 kΩ 6 MΩ 60 MΩ	Resolution 0.1 Ω 0.001 kΩ 0.01 kΩ 0.1 Ω 0.001 MΩ 0.01 MΩ	Accuracy ± (1.2% vMw + 10 Dgt) ± (1.2% vMw + 5 Dgt) ± (1.2% vMw + 5 Dgt) ± (1.2% vMw + 5 Dgt) ± (1.2% vMw + 5 Dgt) ± (2.5% vMw + 10 Dgt)
Frequency	Measuring range 40 Hz ... 100 kHz	Resolution 0.01 Hz ... 0.001 kHz	Accuracy ± 0.5% of Mw.
Duty cycle	Measuring range 20 ... 80%	Resolution 0.1%	Accuracy ± (1.2% from + 2 Dgt)
Capacity	Measuring range 999.9 nF 9.999 nF 999.9 nF 99.99 n.f.	Resolution 0.1 nF 0.001 µF 0.1 µF 0.01 mF	Accuracy ± (1.2% from + 8 Dgt) ± (1.5% from + 8 Dgt) ± (1.5% from + 8 Dgt) ± (2.5% vMw + 20 Dgt)
Temperature with Thermocouple type K	Measuring range -40 ... 600°C / -40 ... 1112°F 600 ... 1000°C / 1112 ... 1832°F	Resolution 0.1°C / 0.18°F 1°C / 1.8°F	Accuracy ± (1.5% from + 3°C / 5.4°F) ± (1.5% from + 3°C / 5.4°F)
General technical data			
Isolation	Class 2 Double insulation		
Casing	IP67 plastic housing		
Diode test	1.5-mA test current 3V DC open circuit voltage		
Continuity test	Alarm tone if resistance < 50 Ω		
Display	6,000 digit OLED		
Refresh rate display	3 Hz		
Automatic shutdown	After 30 minutes		
Input impedance	30 MΩ AC / DC V		
AC response	TRMS		
AC bandwidth	50 ... 1000 Hz		
Interface	Bluetooth BLE		
Power supply	Digital multimeter: 9 V block battery		

Fuses	Rogowski coil: 2 x 1.5V AAA battery 800-mA / 1000V fast acting (6.3 x 32 mm) 10 A / 1000V fast acting (10 x 38 mm)
Operating conditions	0 ... 40°C / 32 ... 104°F, < 70% rh
Storage conditions	-10 ... 60°C / 14 ... 140°F, < 80% rh
Operating altitude	< 2000 m / 6561.7 ft above sea level.
Dimensions	170 x 79 x 50 mm / 6.7 x 3.1 x 2 in
Weight	342 g / < 1 lb
Security	UL61010-1 v3 CAT IV 600V CAT III 1000V
Pollution degree	2

Delivery scope:

- 1 x Voltmeter PCE-ODM 12
- 1 x Rogowski coil PCE-DM-CLAMP
- 1 x Set of test leads
- 1 x Thermocouple type K
- 1 x Thermocouple adapter
- 1 x Carrying bag
- 1 x 9V block batteries
- 2 x 1.5V AAA batteries
- 1 x User manual