

## True RMS Industrial Digital Multimeter with OLED display ODM 10

### Voltmeter PCE-ODM 10

#### 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

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

#### 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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<b>Tension</b>	6V 60V 600V 1000V	0.001V 0.01V 0.1V 1V	@ 50Hz ... 1KHz: ± (3% from + 40 Dgt)
<b>DC DC</b>	<b>Measuring range</b> 600 µA 6000 µA 60-mA 600-mA 6 A 10 A	<b>Resolution</b> 0.1 µA 1 µA 0.01-mA 0.1-mA 0.001 A 0.01A	<b>Accuracy</b> ± (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)
<b>AC AC (TRMS)</b>	<b>Measuring range</b> 600 µA 6000 µA 60-mA 600-mA 6 A 10 A	<b>Resolution</b> 0.1 µA 1 µA 0.01-mA 0.1-mA 0.001 A 0.01A	<b>Accuracy</b> ± (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)
<b>4 ... 20-mA %</b>	-25 ... 125%	0.01%	± 50 digits
<b>AC AC Over Rogowski coil</b>	<b>measuring range</b> 30 A 300 A 3000 A	<b>resolution</b> 0.01A 0.1 A 10 A	<b>accuracy</b> ± (1.2% vMw + 10 Dgt)
<b>Resistance</b>	<b>Measuring range</b> 600 Ω 6 kΩ 60 kΩ 600 kΩ 6 MΩ 60 MΩ	<b>Resolution</b> 0.1 Ω 0.001 kΩ 0.01 kΩ 0.1 Ω 0.001 MΩ 0.01 MΩ	<b>Accuracy</b> ± (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)
<b>Frequency</b>	<b>Measuring range</b> 40 Hz ... 100 kHz	<b>Resolution</b> 0.01 Hz ... 0.001 kHz	± 0.5% of Mw.
<b>Duty cycle</b>	<b>Measuring range</b> 20 ... 80%	<b>Resolution</b> 0.1%	<b>Accuracy</b> ± (1.2% from + 2 Dgt)
<b>Capacity</b>	<b>Measuring range</b> 999.9 nF 9.999 nF 999.9 nF 99.99 n.f.	<b>Resolution</b> 0.1 nF 0.001 µF 0.1 µF 0.01 mF	<b>Accuracy</b> ± (1.2% from + 8 Dgt) ± (1.5% from + 8 Dgt) ± (1.5% from + 8 Dgt) ± (2.5% vMw + 20 Dgt)
<b>Temperature with Thermocouple type K</b>	<b>Measuring range</b> -40 ... 600°C / -40 ... 1112°F 600 ... 1000°C / 1112 ... 1832°F	<b>Resolution</b> 0.1°C / 0.18°F 1°C / 1.8°F	<b>Accuracy</b> ± (1.5% from + 3°C / 5.4°F) ± (1.5% from + 3°C / 5.4°F)
<b>General technical data</b>			
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	
Power supply		Digital multimeter: 9V 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 10
- 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