

## Bench Type Multimeter with Datalogger BMM 10-ICA

### Digital Multimeter PCE-BMM 10-ICA incl. ISO Calibration Certificate

**Table multimeter with many measuring functions / Data logger / Mains operation (AC power adapter) and battery operation / TrueRMS measuring device / Measuring range up to 1000V and 10 A / RS-232 interface / Automatic switch-off function / Large and illuminated LC display / Storage rate between 1 ... 3600 s**

This PCE-BMM 10 digital multimeter is equipped for mobile as well as stationary operation. As a supply voltage, the table multimeter with mains voltage (AC power adapter) as well as in battery operation can be used. A large range of functions of the measuring ranges leaves hardly anything to be desired. In addition to accurately capturing VDC, VAC, ADC, AAC and resistance, this desktop multimeter also determines the capacity and frequency. An acoustic continuity test and a diode test are also integrated in the desk multimeter.

In addition, the measured values can be stored on an SD card of up to 32 GB on the table multimeter using the data logger function. As a result, long-term recordings of electrical components or assemblies, machinery and equipment are possible. Thanks to the large and illuminated display, the readings are very easy to read. This table multimeter can optionally also be laboratory-calibrated and equipped with an ISO calibration certificate (at the time of initial order or recalibration, eg annually).

- Automatic / manual range selection
- Also suitable for mobile use
- Continuity test, diode test
- TrueRMS measurement
- RS-232 interface
- Mains / AC power adapter and battery operation
- Frequency measurement up to 60 MHz
- ISO calibration optionally available
- incl. ISO Calibration Certificate

### Specifications:

#### Measuring range

Measuring ranges

Resolution

Accuracy

Input resistance

Overvoltage protection

#### DC

600.0mV / 6V / 60V / 600V / 1000V

0.1mV / 0.001V / 0.01V / 0.1V / 1V

± (0.5% + 2 d) to 600 mV

± (0.8% + 1 d) from 600 mV

10 Mohms

In the measuring range 600 mV to ± 350 VAC / VDC  
over measuring range 600 mV to ± 1000 VAC / VDC

#### Measuring range

Measuring ranges

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Input resistance

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#### AC

600.0mV / 6V / 60V / 600V / 1000V

0.1mV / 0.001V / 0.01V / 0.1V / 1V

± (1% + 3 d) at a frequency of 50/60 Hz

10 MΩ

in the measuring range 600 mV to ± 350 VAC / VDC  
over measuring range 600 mV to ± 1000 VAC / VDC

### direct current

measuring range

Resolution

Accuracy

Fuse

10 A	0.01A	$\pm (1.5\% + 2 \text{ Dgt})$	10 A / 600V
6 A	0.001 A	$\pm (1.5\% + 5 \text{ Dgt})$	10 A / 600V
600-mA	0.1-mA	$\pm (0.5\% + 2 \text{ Dgt})$	600 mA / 600V
60-mA	0.01-mA	$\pm (0.5\% + 2 \text{ Dgt})$	600 mA / 600V
6000 $\mu\text{A}$	1 $\mu\text{A}$	$\pm (0.5\% + 2 \text{ Dgt})$	600 mA / 600V
600 $\mu\text{A}$	0.1 $\mu\text{A}$	$\pm (0.5\% + 2 \text{ Dgt})$	600 mA / 600V

### Alternating current

#### Measuring range

10 A	<b>Resolution</b> 0.01A	<b>Accuracy</b> $\pm (1.5\% + 2 \text{ Dgt})$	<b>Fuse</b> 10 A / 600V
6 A	0.001 A	$\pm (1.5\% + 5 \text{ Dgt})$	10 A / 600V
60-mA	0.1-mA	$\pm (1\% + 7 \text{ Dgt})$	600-mA / 600V
600-mA	0.01-mA	$\pm (1\% + 7 \text{ Dgt})$	600-mA / 600V
6000 $\mu\text{A}$	1 $\mu\text{A}$	$\pm (1\% + 7 \text{ Dgt})$	600-mA / 600V
600 $\mu\text{A}$	0.1 $\mu\text{A}$	$\pm (1\% + 7 \text{ Dgt})$	600-mA / 600V

The accuracies refer to 50 and 60 Hz

### Diode test

Measuring range	2.7 VDC
Accuracy	$\pm (0.5\% + 2 \text{ Dgt})$

### Frequency measurement

<b>Area</b>	<b>Resolution</b>	<b>Accuracy</b>
60 MHz	0.01 MHz	$\pm (0.5\% + 2 \text{ Dgt})$
6 MHz	0.001 MHz	$\pm (0.5\% + 2 \text{ Dgt})$
600 KHz	0.1 KHz	$\pm (0.5\% + 2 \text{ Dgt})$
60 KHz	0.01 KHz	$\pm (0.5\% + 2 \text{ Dgt})$
6 KHz	0.001 KHz	$\pm (0.5\% + 2 \text{ Dgt})$
600 Hz	0.1 Hz	$\pm (0.5\% + 2 \text{ Dgt})$
60 Hz	0.01 Hz	$\pm (0.5\% + 2 \text{ Dgt})$

Sensitivity Min. 1 V rms, Max. 5 V rms

### Continuity measurement

Acoustic signal with a resistance of less than 3  $\Omega$

Duty cycle

<b>Frequency range</b>	<b>Duty cycle range</b>
60 Hz ... 600 Hz	5 ... 90%
601 Hz ... 6 kHz	10 ... 90%
6.1 kHz ... 60 KHz	20 ... 80%
61 KHz ... 1 MHz	30 ... 80%
> 1 MHz ... 10 MH	Only as a reference measurement

Accuracy  $\pm (0.5\% + 5 \text{ Dgt})$

Sensitivity Min. 1V rms, Max. 5V rms

### Resistivity

#### Measuring range

60 M $\Omega$	<b>Resolution</b> 0.01 M $\Omega$	<b>Accuracy</b> $\pm (3\% + 5 \text{ Dgt})$	<b>Fuse</b> $\pm 350 \text{ VAC / DC}$
6 M $\Omega$	0.001 M $\Omega$	$\pm (1.5\% + 2 \text{ Dgt})$	$\pm 350 \text{ VAC / DC}$
600 k $\Omega$	0.1 k $\Omega$	$\pm (1.5\% + 2 \text{ Dgt})$	$\pm 350 \text{ VAC / DC}$
60 k $\Omega$	0.01k $\Omega$	$\pm (1.5\% + 2 \text{ Dgt})$	$\pm 350 \text{ VAC / DC}$
6 k $\Omega$	0.001 k $\Omega$	$\pm (1.5\% + 2 \text{ Dgt})$	$\pm 350 \text{ VAC / DC}$
600 $\Omega$	0.1 $\Omega$	$\pm (1\% + 2 \text{ Dgt})$	$\pm 350 \text{ VAC / DC}$

Display

Backlit LC display up to 6000

Display updating

Storage rate

Corrupt data

SD card capacity

Select measuring range

Additional function

97 mm x 56 mm / 3.8 x 2.2 in

Average between 0.5 ... 1 second

0, 1, 2, 5, 10, 30, 60, 120, 300, 600, 1800, 3600

\*a storage rate of 0 means manual storage

<0.1% of the data is typically faulty

4 ... 32 GB

Automatic and manual

Put the measured value in relation

Freeze measured value

Automatic shutdown

MAX / MIN

Polarity	In reverse polarity, the measured value is negated.
Zero	Automatically
Interface	RS232
Power supply power supply	Primary: 230V, 50 Hz, 0.3 A Secondary: 9 VDC, 800-mA, 7.2 VA
Power supply	Batteries 6 x AA 1.5V
Dimensions	292 x 236 x 98 mm / 11.5 x 9.3 x 3.9 in
Weight	1972 g / 4.3 lbs (without batteries)
Environmental conditions	0 ... 50°C / 32 ... 122°F, max. 80% RH
Degree of protection / Standardization	CAT I 1000V

### **Delivery scope:**

- 1 x Digital Multimeter PCE-BMM 10-ICA
- 1 x Set of test leads
- 1 x SD card
- 1 x User manual
- 1 x ISO Calibration Certificate