

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



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 | DC |
| Measuring ranges | 600.0mV / 6V / 60V / 600V / 1000V |
| Resolution | 0.1mV / 0.001V / 0.01V / 0.1V / 1V |
| Accuracy | ± (0.5% + 2 d) to 600 mV ± (0.8% + 1 d) from 600 mV |
| Input resistance | 10 Mohms |
| Overvoltage protection | In the measuring range 600 mV to ± 350 VAC / VDC over measuring range 600 mV to ± 1000 VAC / VDC |

| | |
|------------------------|---|
| Measuring range | AC |
| Measuring ranges | 600.0mV / 6V / 60V / 600V / 1000V |
| Resolution | 0.1mV / 0.001V / 0.01V / 0.1V / 1V |
| Accuracy | ± (1% + 3 d) at a frequency of 50/60 Hz |
| Input resistance | 10 MΩ |
| Overvoltage protection | 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 | ± (1.5% + 2 Dgt) | 10 A / 600V |
| 6 A | 0.001 A | ± (1.5% + 5 Dgt) | 10 A / 600V |
| 600-mA | 0.1-mA | ± (0.5% + 2 Dgt) | 600 mA / 600V |
| 60-mA | 0.01-mA | ± (0.5% + 2 Dgt) | 600 mA / 600V |
| 6000 µA | 1 µA | ± (0.5% + 2 Dgt) | 600 mA / 600V |
| 600 µA | 0.1 µA | ± (0.5% + 2 Dgt) | 600 mA / 600V |

| | | | |
|----------------------------|-------------------|------------------|---------------|
| Alternating current | | | |
| Measuring range | Resolution | Accuracy | Fuse |
| 10 A | 0.01A | ± (1.5% + 2 Dgt) | 10 A / 600V |
| 6 A | 0.001 A | ± (1.5% + 5 Dgt) | 10 A / 600V |
| 60-mA | 0.1-mA | ± (1% + 7 Dgt) | 600-mA / 600V |
| 600-mA | 0.01-mA | ± (1% + 7 Dgt) | 600-mA / 600V |
| 6000 µA | 1 µA | ± (1% + 7 Dgt) | 600-mA / 600V |
| 600 µA | 0.1 µA | ± (1% + 7 Dgt) | 600-mA / 600V |

The accuracies refer to 50 and 60 Hz

| | |
|-------------------|------------------|
| Diode test | |
| Measuring range | 2.7 VDC |
| Accuracy | ± (0.5% + 2 Dgt) |

More information

More product info



Similar products



Subject to change

Frequency measurement

| Area | Resolution | Accuracy |
|---------|------------|-------------------------------|
| 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 Ω

Duty cycle

| Frequency range | Duty cycle range |
|--------------------|---------------------------------|
| 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 | Resolution | Accuracy | Fuse |
|-----------------|------------------|-------------------------------|-----------------------------------|
| 60 M Ω | 0.01 M Ω | $\pm (3\% + 5 \text{ Dgt})$ | $\pm 350 \text{ VAC} / \text{DC}$ |
| 6 M Ω | 0.001 M Ω | $\pm (1.5\% + 2 \text{ Dgt})$ | $\pm 350 \text{ VAC} / \text{DC}$ |
| 600 k Ω | 0.1 k Ω | $\pm (1.5\% + 2 \text{ Dgt})$ | $\pm 350 \text{ VAC} / \text{DC}$ |
| 60 k Ω | 0,01k Ω | $\pm (1.5\% + 2 \text{ Dgt})$ | $\pm 350 \text{ VAC} / \text{DC}$ |
| 6 k Ω | 0.001 k Ω | $\pm (1.5\% + 2 \text{ Dgt})$ | $\pm 350 \text{ VAC} / \text{DC}$ |
| 600 Ω | 0.1 Ω | $\pm (1\% + 2 \text{ Dgt})$ | $\pm 350 \text{ VAC} / \text{DC}$ |

Display 97 mm x 56 mm / 3.8 x 2.2 in

Backlit LC display up to 6000

Display updating Average between 0.5 ... 1 second

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

*a storage rate of 0 means manual storage

Corrupt data <0.1% of the data is typically faulty

SD card capacity 4 ... 32 GB

Select measuring range Automatic and manual

Subject to change



| | |
|---|--|
| Additional function | 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 |

Subject to change

