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# 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

#### Measuring range

Measuring ranges Resolution Accuracy Input resistance Overvoltage protection

### DC

 $\begin{array}{l} 600.0 \text{mV} / 6\text{V} / 60\text{V} / 600\text{V} / 1000\text{V} \\ 0.1 \text{mV} / 0.001\text{V} / 0.01\text{V} / 0.1\text{V} / 1\text{V} \\ \pm (0.5\% + 2 \text{ d}) \text{ to } 600 \text{ mV} \\ \pm (0.8\% + 1 \text{ d}) \text{ from } 600 \text{ mV} \\ 10 \text{ Mohms} \\ \text{In the measuring range } 600 \text{ mV to } \pm 350 \text{ VAC} / \text{VDC} \\ \text{over measuring range } 600 \text{ mV to } \pm 1000 \text{ VAC} / \text{VDC} \end{array}$ 

## AC

 $\begin{array}{l} 600.0mV \,/\, 6V \,/\, 60V \,/\, 600V \,/\, 1000V \\ 0.1mV \,/\, 0.001V \,/\, 0.01V \,/\, 0.1V \,/\, 1V \\ \pm \,(1\% \,+\, 3 \,d) \mbox{ at a frequency of } 50/60 \mbox{ Hz} \\ 10 \mbox{ M}\Omega \\ \mbox{in the measuring range } 600 \mbox{ mV to } \pm \, 350 \mbox{ VAC } / \mbox{ VDC} \\ \mbox{over measuring range } 600 \mbox{ mV to } \pm \, 1000 \mbox{ VAC } / \mbox{ VDC} \end{array}$ 

direct current	
measuring range	Resolution

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	$\pm (0.5\% + 2 \text{ Dgt})$ $\pm (0.5\% + 2 \text{ Dgt})$	600 mA / 600V
6000 μA	1 μA	$\pm (0.5\% + 2 \text{ Dgt})$ $\pm (0.5\% + 2 \text{ Dgt})$	600 mA / 600V
•			
600 μΑ	0.1 μΑ	$\pm$ (0.5% + 2 Dgt)	600 mA / 600V
Alternating 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
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 μA	1 μA	$\pm (1\% + 7 \text{ Dgt})$ $\pm (1\% + 7 \text{ Dgt})$	600-mA / 600V
•	•		
600 μΑ	0.1 µA	$\pm$ (1% + 7 Dgt)	600-mA / 600V
The accuracies refer to 50 and 60 Hz			
Diode test			
Measuring range	2.7 VDC		
Accuracy	$\pm (0.5\% + 2 \text{ Dgt})$		
recuracy			
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			
	am 2 O		
Acoustic signal with a resistance of less th	an 3 Ω		
Acoustic signal with a resistance of less th Duty cycle			
Acoustic signal with a resistance of less th	an 3 Ω <b>Duty cycle range</b>		
Acoustic signal with a resistance of less th Duty cycle			
Acoustic signal with a resistance of less th Duty cycle <b>Frequency range</b>	Duty cycle range		
Acoustic signal with a resistance of less th Duty cycle <b>Frequency range</b> 60 Hz 600 Hz 601 Hz 6 kHz	<b>Duty cycle range</b> 5 90% 10 90%		
Acoustic signal with a resistance of less th Duty cycle <b>Frequency range</b> 60 Hz 600 Hz 601 Hz 6 kHz 6.1 kHz 60 KHz	<b>Duty cycle range</b> 5 90% 10 90% 20 80%		
Acoustic signal with a resistance of less th Duty cycle <b>Frequency range</b> 60 Hz 600 Hz 601 Hz 6 kHz 6.1 kHz 60 KHz 61 KHz 1 MHz	<b>Duty cycle range</b> 5 90% 10 90% 20 80% 30 80%	sment	
Acoustic signal with a resistance of less th Duty cycle <b>Frequency range</b> 60 Hz 600 Hz 601 Hz 6 kHz 6.1 kHz 60 KHz	<b>Duty cycle range</b> 5 90% 10 90% 20 80%	ement	
Acoustic signal with a resistance of less th Duty cycle Frequency range 60 Hz 600 Hz 601 Hz 6 kHz 6.1 kHz 60 KHz 61 KHz 1 MHz > 1 MHz 10 MH	<b>Duty cycle range</b> 5 90% 10 90% 20 80% 30 80% Only as a reference measure	ement	
Acoustic signal with a resistance of less th Duty cycle <b>Frequency range</b> 60 Hz 600 Hz 601 Hz 6 kHz 6.1 kHz 60 KHz 61 KHz 1 MHz > 1 MHz 10 MH Accuracy	<b>Duty cycle range</b> 5 90% 10 90% 20 80% 30 80%	ement	
Acoustic signal with a resistance of less th Duty cycle <b>Frequency range</b> 60 Hz 600 Hz 601 Hz 6 kHz 6.1 kHz 60 KHz 61 KHz 1 MHz > 1 MHz 10 MH Accuracy Sensitivity Min. 1V rms, Max. 5V rms	<b>Duty cycle range</b> 5 90% 10 90% 20 80% 30 80% Only as a reference measure	ement	
Acoustic signal with a resistance of less th Duty cycle <b>Frequency range</b> 60 Hz 600 Hz 601 Hz 6 KHz 6.1 kHz 60 KHz 61 KHz 1 MHz > 1 MHz 10 MH Accuracy Sensitivity Min. 1V rms, Max. 5V rms <b>Resistivity</b>	Duty cycle range 5 90% 10 90% 20 80% 30 80% Only as a reference measure ± (0.5% + 5 Dgt)		
Acoustic signal with a resistance of less th Duty cycle Frequency range 60 Hz 600 Hz 601 Hz 6 kHz 6.1 kHz 60 KHz 61 KHz 1 MHz > 1 MHz 10 MH Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range	Duty cycle range 5 90% 10 90% 20 80% 30 80% Only as a reference measure $\pm (0.5\% + 5 \text{ Dgt})$ Resolution	Accuracy	Fuse
Acoustic signal with a resistance of less th Duty cycle <b>Frequency range</b> 60 Hz 600 Hz 601 Hz 6 KHz 6.1 kHz 60 KHz 61 KHz 1 MHz > 1 MHz 10 MH Accuracy Sensitivity Min. 1V rms, Max. 5V rms <b>Resistivity</b>	Duty cycle range 5 90% 10 90% 20 80% 30 80% Only as a reference measure ± (0.5% + 5 Dgt) Resolution 0.01 MΩ	<b>Accuracy</b> ± (3% + 5 Dgt)	$\pm$ 350 VAC / DC
Acoustic signal with a resistance of less th Duty cycle Frequency range 60 Hz 600 Hz 601 Hz 6 kHz 6.1 kHz 60 KHz 61 KHz 1 MHz > 1 MHz 10 MH Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range	Duty cycle range 5 90% 10 90% 20 80% 30 80% Only as a reference measure $\pm (0.5\% + 5 \text{ Dgt})$ Resolution	Accuracy	
Acoustic signal with a resistance of less th Duty cycle Frequency range 60 Hz 600 Hz 601 Hz 6 kHz 61 kHz 6 kHz 61 kHz 1 MHz > 1 MHz 10 MH Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range 60 MΩ	Duty cycle range 5 90% 10 90% 20 80% 30 80% Only as a reference measure ± (0.5% + 5 Dgt) Resolution 0.01 MΩ	Accuracy ± (3% + 5 Dgt) ± (1.5% + 2 Dgt)	$\pm$ 350 VAC / DC
Acoustic signal with a resistance of less th Duty cycle Frequency range $60 \text{ Hz} \dots 600 \text{ Hz}$ $601 \text{ Hz} \dots 60 \text{ Hz}$ $611 \text{ KHz} \dots 60 \text{ KHz}$ $611 \text{ KHz} \dots 10 \text{ KHz}$ $611 \text{ KHz} \dots 10 \text{ MH}$ Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range $60 \text{ M}\Omega$ $6 \text{ M}\Omega$ $600 \text{ k}\Omega$	Duty cycle range 5 90% 10 90% 20 80% 30 80% Only as a reference measure $\pm (0.5\% + 5 \text{ Dgt})$ Resolution $0.01 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.1 \text{ k}\Omega$	Accuracy ± (3% + 5 Dgt) ± (1.5% + 2 Dgt) ± (1.5% + 2 Dgt)	± 350 VAC / DC ± 350 VAC / DC ± 350 VAC / DC
Acoustic signal with a resistance of less th Duty cycle Frequency range $60 \text{ Hz} \dots 600 \text{ Hz}$ $601 \text{ Hz} \dots 60 \text{ Hz}$ $611 \text{ Hz} \dots 60 \text{ KHz}$ $61 \text{ KHz} \dots 10 \text{ KHz}$ $> 1 \text{ MHz} \dots 10 \text{ MH}$ Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range $60 \text{ M}\Omega$ $6 \text{ M}\Omega$ $600 \text{ k}\Omega$	Duty cycle range 5 90% 10 90% 20 80% 30 80% Only as a reference measure $\pm (0.5\% + 5 \text{ Dgt})$ Resolution $0.01 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.1 \text{ k}\Omega$ $0.01 \text{ k}\Omega$	Accuracy $\pm (3\% + 5 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$	$\pm 350 \text{ VAC } / \text{ DC}$ $\pm 350 \text{ VAC } / \text{ DC}$ $\pm 350 \text{ VAC } / \text{ DC}$ $\pm 350 \text{ VAC } / \text{ DC}$
Acoustic signal with a resistance of less th Duty cycle Frequency range $60 \text{ Hz} \dots 600 \text{ Hz}$ $601 \text{ Hz} \dots 60 \text{ Hz}$ $611 \text{ Hz} \dots 60 \text{ Hz}$ $61 \text{ KHz} \dots 10 \text{ Hz}$ $61 \text{ KHz} \dots 10 \text{ MHz}$ $> 1 \text{ MHz} \dots 10 \text{ MH}$ Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range $60 \text{ M}\Omega$ $60 \text{ M}\Omega$ $600 \text{ k}\Omega$ $60 \text{ k}\Omega$	Duty cycle range 5 90% 10 90% 20 80% 30 80% Only as a reference measure $\pm (0.5\% + 5 \text{ Dgt})$ Resolution $0.01 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.01 \text{ k}\Omega$ $0.001 \text{ k}\Omega$	Accuracy $\pm (3\% + 5 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$	$\pm 350 \text{ VAC / DC}$ $\pm 350 \text{ VAC / DC}$
Acoustic signal with a resistance of less th Duty cycle Frequency range $60 \text{ Hz} \dots 600 \text{ Hz}$ $601 \text{ Hz} \dots 60 \text{ Hz}$ $611 \text{ Hz} \dots 60 \text{ KHz}$ $61 \text{ KHz} \dots 10 \text{ KHz}$ $> 1 \text{ MHz} \dots 10 \text{ MH}$ Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range $60 \text{ M}\Omega$ $6 \text{ M}\Omega$ $600 \text{ k}\Omega$	Duty cycle range 5 90% 10 90% 20 80% 30 80% Only as a reference measure $\pm (0.5\% + 5 \text{ Dgt})$ Resolution $0.01 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.1 \text{ k}\Omega$ $0.01 \text{ k}\Omega$	Accuracy $\pm (3\% + 5 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$	$\pm 350 \text{ VAC } / \text{ DC}$ $\pm 350 \text{ VAC } / \text{ DC}$ $\pm 350 \text{ VAC } / \text{ DC}$ $\pm 350 \text{ VAC } / \text{ DC}$
Acoustic signal with a resistance of less th Duty cycle Frequency range $60 \text{ Hz} \dots 600 \text{ Hz}$ $601 \text{ Hz} \dots 600 \text{ Hz}$ $611 \text{ Hz} \dots 60 \text{ KHz}$ $611 \text{ KHz} \dots 10 \text{ KHz}$ $611 \text{ KHz} \dots 10 \text{ MH}$ Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range $60 \text{ M}\Omega$ $60 \text{ M}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \Omega$	Duty cycle range 5 90% 10 90% 20 80% 30 80% Only as a reference measure $\pm (0.5\% + 5 \text{ Dgt})$ Resolution $0.01 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.001 \text{ K}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$	Accuracy $\pm (3\% + 5 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$ $\pm (1\% + 2 \text{ Dgt})$	$\pm 350 \text{ VAC / DC}$ $\pm 350 \text{ VAC / DC}$
Acoustic signal with a resistance of less th Duty cycle Frequency range $60 \text{ Hz} \dots 600 \text{ Hz}$ $601 \text{ Hz} \dots 60 \text{ Hz}$ $611 \text{ KHz} \dots 60 \text{ KHz}$ $61 \text{ KHz} \dots 10 \text{ KHz}$ $61 \text{ KHz} \dots 10 \text{ MH}$ Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range $60 \text{ M}\Omega$ $60 \text{ M}\Omega$ $600 \text{ k}\Omega$ $60 \text{ k}\Omega$ $600 \Omega$ Display	Duty cycle range 5 90% 10 90% 20 80% 30 80% Only as a reference measure $\pm (0.5\% + 5 \text{ Dgt})$ Resolution $0.01 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.01 \text{ k}\Omega$ $0.001 \text{ k}\Omega$	Accuracy $\pm (3\% + 5 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$ $\pm (1\% + 2 \text{ Dgt})$	$\pm 350 \text{ VAC / DC}$ $\pm 350 \text{ VAC / DC}$
Acoustic signal with a resistance of less th Duty cycle Frequency range $60 \text{ Hz} \dots 600 \text{ Hz}$ $601 \text{ Hz} \dots 60 \text{ Hz}$ $611 \text{ Hz} \dots 60 \text{ KHz}$ $61 \text{ KHz} \dots 10 \text{ KHz}$ $61 \text{ KHz} \dots 10 \text{ MH}$ Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range $60 \text{ M}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ c}\Omega$ Display Backlit LC display up to 6000	Duty cycle range $5 \dots 90\%$ $10 \dots 90\%$ $20 \dots 80\%$ $30 \dots 80\%$ Only as a reference measure $\pm (0.5\% + 5 \text{ Dgt})$ Resolution $0.01 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.01 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.1 \Omega$	Accuracy $\pm (3\% + 5 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$ $\pm (1\% + 2 \text{ Dgt})$ in	$\pm 350 \text{ VAC / DC}$ $\pm 350 \text{ VAC / DC}$
Acoustic signal with a resistance of less th Duty cycle Frequency range $60 \text{ Hz} \dots 600 \text{ Hz}$ $601 \text{ Hz} \dots 60 \text{ Hz}$ $611 \text{ Hz} \dots 60 \text{ KHz}$ $61 \text{ KHz} \dots 1 \text{ MHz}$ $> 1 \text{ MHz} \dots 10 \text{ MH}$ Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range $60 \text{ M}\Omega$ $6 \text{ M}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \Omega$ Display Backlit LC display up to 6000 Display updating	Duty cycle range 5 90% 10 90% 20 80% 30 80% Only as a reference measure $\pm (0.5\% + 5 \text{ Dgt})$ Resolution $0.01 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.1 \Omega$ 97 mm x 56 mm / 3.8 x 2.2 Average between 0.5 1 set	Accuracy $\pm (3\% + 5 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$ $\pm (1\% + 2 \text{ Dgt})$ in	$\pm 350 \text{ VAC / DC}$ $\pm 350 \text{ VAC / DC}$
Acoustic signal with a resistance of less th Duty cycle Frequency range $60 \text{ Hz} \dots 600 \text{ Hz}$ $601 \text{ Hz} \dots 60 \text{ Hz}$ $611 \text{ Hz} \dots 60 \text{ KHz}$ $61 \text{ KHz} \dots 10 \text{ KHz}$ $61 \text{ KHz} \dots 10 \text{ MH}$ Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range $60 \text{ M}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ c}\Omega$ Display Backlit LC display up to 6000	Duty cycle range $5 \dots 90\%$ $10 \dots 90\%$ $20 \dots 80\%$ $30 \dots 80\%$ Only as a reference measure $\pm (0.5\% + 5 \text{ Dgt})$ Resolution $0.01 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.1 \Omega$ 97 mm x 56 mm / 3.8 x 2.2 Average between 0.5 1 set 0, 1, 2, 5, 10, 30, 60, 120, 30	Accuracy $\pm (3\% + 5 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$ $\pm (1\% + 2 \text{ Dgt})$ in econd 00, 600, 1800, 3600	$\pm 350 \text{ VAC / DC}$ $\pm 350 \text{ VAC / DC}$
Acoustic signal with a resistance of less th Duty cycle Frequency range $60 \text{ Hz} \dots 600 \text{ Hz}$ $601 \text{ Hz} \dots 60 \text{ Hz}$ $611 \text{ Hz} \dots 60 \text{ KHz}$ $61 \text{ KHz} \dots 1 \text{ MHz}$ $> 1 \text{ MHz} \dots 10 \text{ MH}$ Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range $60 \text{ M}\Omega$ $6 \text{ M}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \Omega$ Display Backlit LC display up to 6000 Display updating	Duty cycle range 5 90% 10 90% 20 80% 30 80% Only as a reference measure $\pm (0.5\% + 5 \text{ Dgt})$ Resolution $0.01 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.1 \Omega$ 97 mm x 56 mm / 3.8 x 2.2 Average between 0.5 1 set	Accuracy $\pm (3\% + 5 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$ $\pm (1\% + 2 \text{ Dgt})$ in econd 00, 600, 1800, 3600	$\pm 350 \text{ VAC / DC}$ $\pm 350 \text{ VAC / DC}$
Acoustic signal with a resistance of less th Duty cycle Frequency range $60 \text{ Hz} \dots 600 \text{ Hz}$ $601 \text{ Hz} \dots 60 \text{ Hz}$ $611 \text{ Hz} \dots 60 \text{ KHz}$ $61 \text{ KHz} \dots 1 \text{ MHz}$ $> 1 \text{ MHz} \dots 10 \text{ MH}$ Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range $60 \text{ M}\Omega$ $6 \text{ M}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \Omega$ Display Backlit LC display up to 6000 Display updating	Duty cycle range $5 \dots 90\%$ $10 \dots 90\%$ $20 \dots 80\%$ $30 \dots 80\%$ Only as a reference measure $\pm (0.5\% + 5 \text{ Dgt})$ Resolution $0.01 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.1 \Omega$ 97 mm x 56 mm / 3.8 x 2.2 Average between 0.5 1 set 0, 1, 2, 5, 10, 30, 60, 120, 30	Accuracy $\pm (3\% + 5 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$ $\pm (1\% + 2 \text{ Dgt})$ in econd 00, 600, 1800, 3600 nanual storage	$\pm 350 \text{ VAC / DC}$ $\pm 350 \text{ VAC / DC}$
Acoustic signal with a resistance of less th Duty cycle Frequency range $60 \text{ Hz} \dots 600 \text{ Hz}$ $601 \text{ Hz} \dots 60 \text{ Hz}$ $611 \text{ Hz} \dots 60 \text{ KHz}$ $61 \text{ KHz} \dots 10 \text{ MHz}$ $> 1 \text{ MHz} \dots 10 \text{ MH}$ Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range $60 \text{ M}\Omega$ $6 \text{ M}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \Omega$ Display Backlit LC display up to 6000 Display updating Storage rate Corrupt data	Duty cycle range 5 90% 10 90% 20 80% 30 80% Only as a reference measure $\pm (0.5\% + 5 \text{ Dgt})$ Resolution 0.01 MΩ 0.001 MΩ 0.001 MΩ 0.001 kΩ 0.001 kΩ 0.001 kΩ 0.1 Ω 97 mm x 56 mm / 3.8 x 2.2 Average between 0.5 1 set 0, 1, 2, 5, 10, 30, 60, 120, 30 * a storage rate of 0 means m	Accuracy $\pm (3\% + 5 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$ $\pm (1\% + 2 \text{ Dgt})$ in econd 00, 600, 1800, 3600 nanual storage	$\pm 350 \text{ VAC / DC}$ $\pm 350 \text{ VAC / DC}$
Acoustic signal with a resistance of less th Duty cycle Frequency range $60 \text{ Hz} \dots 600 \text{ Hz}$ $601 \text{ Hz} \dots 60 \text{ Hz}$ $611 \text{ Hz} \dots 60 \text{ KHz}$ $61 \text{ KHz} \dots 1 \text{ MHz}$ $> 1 \text{ MHz} \dots 10 \text{ MH}$ Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range $60 \text{ M}\Omega$ $6 \text{ M}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ 600  g Display Backlit LC display up to $6000$ Display updating Storage rate Corrupt data SD card capacity	Duty cycle range 5 90% 10 90% 20 80% 30 80% Only as a reference measure $\pm (0.5\% + 5 \text{ Dgt})$ Resolution $0.01 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.1 \Omega$ 97 mm x 56 mm / 3.8 x 2.2 Average between 0.5 1 set 0, 1, 2, 5, 10, 30, 60, 120, 30 *a storage rate of 0 means m <0.1% of the data is typicall 4 32  GB	Accuracy $\pm (3\% + 5 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$ $\pm (1\% + 2 \text{ Dgt})$ in econd 00, 600, 1800, 3600 nanual storage	$\pm 350 \text{ VAC / DC}$ $\pm 350 \text{ VAC / DC}$
Acoustic signal with a resistance of less th Duty cycle Frequency range $60 \text{ Hz} \dots 600 \text{ Hz}$ $601 \text{ Hz} \dots 60 \text{ Hz}$ $611 \text{ Hz} \dots 60 \text{ KHz}$ $61 \text{ KHz} \dots 10 \text{ KHz}$ $61 \text{ KHz} \dots 10 \text{ MH}$ Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range $60 \text{ M}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \Omega$ Display Backlit LC display up to $6000$ Display updating Storage rate Corrupt data SD card capacity Select measuring range	Duty cycle range 5 90% 10 90% 20 80% 30 80% Only as a reference measure $\pm (0.5\% + 5 \text{ Dgt})$ Resolution $0.01 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.001 \text{ M}\Omega$ $0.001 \text{ K}\Omega$ $0.001 \text{ K}\Omega$ $0.001 \text{ k}\Omega$ $0.001 \text{ k}\Omega$ $0.1 \Omega$ 97 mm x 56 mm / 3.8 x 2.2 Average between $0.5 1$ set 0, 1, 2, 5, 10, 30, 60, 120, 30 * a storage rate of 0 means m <0.1% of the data is typicall 4 32  GB Automatic and manual	Accuracy $\pm (3\% + 5 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$ $\pm (1\% + 2 \text{ Dgt})$ in econd 00, 600, 1800, 3600 nanual storage by faulty	$\pm 350 \text{ VAC / DC}$ $\pm 350 \text{ VAC / DC}$
Acoustic signal with a resistance of less th Duty cycle Frequency range $60 \text{ Hz} \dots 600 \text{ Hz}$ $601 \text{ Hz} \dots 60 \text{ Hz}$ $611 \text{ Hz} \dots 60 \text{ KHz}$ $61 \text{ KHz} \dots 1 \text{ MHz}$ $> 1 \text{ MHz} \dots 10 \text{ MH}$ Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range $60 \text{ M}\Omega$ $6 \text{ M}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ 600  g Display Backlit LC display up to $6000$ Display updating Storage rate Corrupt data SD card capacity	Duty cycle range     5 90%     10 90%     20 80%     30 80%     Only as a reference measure $\pm$ (0.5% + 5 Dgt) <b>Resolution</b> 0.01 MΩ     0.01 MΩ     0.01 MΩ     0.01 MΩ     0.01 kΩ     0.001 kΩ     0.001 kΩ     0.1 Ω     97 mm x 56 mm / 3.8 x 2.2     Average between 0.5 1 set     0, 1, 2, 5, 10, 30, 60, 120, 30     *a storage rate of 0 means m     <0.1% of the data is typicall	Accuracy $\pm (3\% + 5 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$ $\pm (1\% + 2 \text{ Dgt})$ in econd 00, 600, 1800, 3600 nanual storage by faulty	$\pm 350 \text{ VAC / DC}$ $\pm 350 \text{ VAC / DC}$
Acoustic signal with a resistance of less th Duty cycle Frequency range $60 \text{ Hz} \dots 600 \text{ Hz}$ $601 \text{ Hz} \dots 60 \text{ Hz}$ $611 \text{ Hz} \dots 60 \text{ KHz}$ $61 \text{ KHz} \dots 10 \text{ KHz}$ $61 \text{ KHz} \dots 10 \text{ MH}$ Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range $60 \text{ M}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \Omega$ Display Backlit LC display up to $6000$ Display updating Storage rate Corrupt data SD card capacity Select measuring range	Duty cycle range     5 90%     10 90%     20 80%     30 80%     Only as a reference measure $\pm$ (0.5% + 5 Dgt)     Resolution     0.01 MΩ     0.01 MΩ     0.01 kΩ     0.01 kΩ     0.001 kΩ     0.1 Ω     97 mm x 56 mm / 3.8 x 2.2     Average between 0.5 1 set     0, 1, 2, 5, 10, 30, 60, 120, 30     *a storage rate of 0 means m     <0.1% of the data is typicall	Accuracy $\pm (3\% + 5 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$ $\pm (1\% + 2 \text{ Dgt})$ in econd 00, 600, 1800, 3600 nanual storage by faulty	$\pm 350 \text{ VAC / DC}$ $\pm 350 \text{ VAC / DC}$
Acoustic signal with a resistance of less th Duty cycle Frequency range $60 \text{ Hz} \dots 600 \text{ Hz}$ $601 \text{ Hz} \dots 60 \text{ Hz}$ $611 \text{ Hz} \dots 60 \text{ KHz}$ $61 \text{ KHz} \dots 10 \text{ KHz}$ $61 \text{ KHz} \dots 10 \text{ MH}$ Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range $60 \text{ M}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \Omega$ Display Backlit LC display up to $6000$ Display updating Storage rate Corrupt data SD card capacity Select measuring range	Duty cycle range     5 90%     10 90%     20 80%     30 80%     Only as a reference measure $\pm$ (0.5% + 5 Dgt) <b>Resolution</b> 0.01 MΩ     0.1 kΩ     0.001 kΩ     0.1 Ω     97 mm x 56 mm / 3.8 x 2.2     Average between 0.5 1 set     0, 1, 2, 5, 10, 30, 60, 120, 30     *a storage rate of 0 means m     <0.1% of the data is typicall	Accuracy $\pm (3\% + 5 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$ $\pm (1\% + 2 \text{ Dgt})$ in econd 00, 600, 1800, 3600 nanual storage by faulty	$\pm 350 \text{ VAC / DC}$ $\pm 350 \text{ VAC / DC}$
Acoustic signal with a resistance of less th Duty cycle Frequency range $60 \text{ Hz} \dots 600 \text{ Hz}$ $601 \text{ Hz} \dots 60 \text{ Hz}$ $611 \text{ Hz} \dots 60 \text{ KHz}$ $61 \text{ KHz} \dots 10 \text{ KHz}$ $61 \text{ KHz} \dots 10 \text{ MH}$ Accuracy Sensitivity Min. 1V rms, Max. 5V rms Resistivity Measuring range $60 \text{ M}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \text{ k}\Omega$ $600 \Omega$ Display Backlit LC display up to $6000$ Display updating Storage rate Corrupt data SD card capacity Select measuring range	Duty cycle range     5 90%     10 90%     20 80%     30 80%     Only as a reference measure $\pm$ (0.5% + 5 Dgt)     Resolution     0.01 MΩ     0.01 MΩ     0.01 kΩ     0.01 kΩ     0.001 kΩ     0.1 Ω     97 mm x 56 mm / 3.8 x 2.2     Average between 0.5 1 set     0, 1, 2, 5, 10, 30, 60, 120, 30     *a storage rate of 0 means m     <0.1% of the data is typicall	Accuracy $\pm (3\% + 5 \text{ Dgt})$ $\pm (1.5\% + 2 \text{ Dgt})$ $\pm (1\% + 2 \text{ Dgt})$ in econd 00, 600, 1800, 3600 nanual storage by faulty	$\pm 350 \text{ VAC / DC}$ $\pm 350 \text{ VAC / DC}$

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

# **Delivery scope:**

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