ISOLATION METER

PCE-IT 110



Specification

Direct voltage DC	
Measuring range up to	0 ... 600 mV
Resolution	0,1 mV
Accuracy	±(0.9% +5 digits)
Overload	1000 V
Direct voltage DC	
Measuring range up to	600 mV ... 6 V
Resolution	0,001 V
Accuracy	±(0.9% +5 digits)
Direct voltage DC	
Measuring range up to	6 ... 60 V
Resolution	0,01 V
Accuracy	±(0.9% +5 digits)
Direct voltage DC	
Measuring range up to	60 ... 600 V
Resolution	0,1 V
Accuracy	±(1% +5 digits)
Direct voltage DC	
Measuring range up to	600 ... 1000 V
Resolution	1 V
Accuracy	±(1% +5 digits)
Direct current DC	
Measuring range up to	0 ... 200 µA
Resolution	0,1 µA
Accuracy	±(0.9% +8 digits)
Direct current DC	
Measuring range up to	200 µA ... 600 mA
Resolution	0,1 mA
Accuracy	±(1.2% +3 Digits)
Direct current DC	
Measuring range up to	600 mA ... 10 A
Resolution	0,01 A
Accuracy	±(1.5 % +5 digits)
Capacity	
Measuring range up to	0 ... 60 nF
Resolution	0,01 nF
Accuracy	±(5% +35 digits)
Capacity	

General technical data	
Measuring functions	MIN, MAX, HOLD, PI, DAR
Display Typ	LCD-Color Display
Display size	3,5 Inch
Display refresh rate	3 x per second
Measuring rate	3 Hz
Storage medium	Internal memory
Storage capacity	1800 Values
Storage interval from	1 s
Storage interval until	60 min.
Data interface	Bluetooth
Automatic shutdown adjustable	15 ... 60 min.
Automatic switch-off can be deactivated	Yes
Safety standard	CAT III 1000V, CAT IV 600 V
Diode test	Test current: <1.5 mA Max. Voltage in open circuit: 3.2V DC
Menu language	English (US), English (GB)
Protection class (device)	IP65
Battery/battery	6 x 1,5 V AA Battery (1,5V) , Alkali-Manganese
Battery capacity	2500 mAh
Operating conditions	5 ... 40 °C , 0 ... 80 %RH
Storage conditions	-20 ... 60 °C , 0 ... 80 %RH
Dimensions (L x W x H)	215 x 100 x 65 mm
Weight	569 g

Measuring range up to	60 ... 600 nF
Resolution	0,1 nF
Accuracy	±(2.5 % +8 digits)
Capacity	
Measuring range up to	600 nF ... 6 µF
Resolution	0,001 µF
Accuracy	±(3% +5 digits)
Capacity	
Measuring range up to	6 ... 60 µF
Resolution	0,01 µF
Accuracy	±(3% +5 digits)
Capacity	
Measuring range up to	60 ... 600 µF
Resolution	0,1 µF
Accuracy	±(3% +5 digits)
Capacity	
Measuring range up to	600 ... 6000 µF
Resolution	1 µF
Accuracy	±(2.5% +20 Digits)
Temperature type K	
Measuring range up to	-20 ... +600 °C
Resolution	0,1 °C
Accuracy	±(3% of the measured value (of m.v.) +5 °C)
Temperature type K	
Measuring range up to	600 ... 1000 °C
Resolution	1 °C
Accuracy	±(3% of the measured value (of m.v.) +5 °C)
Temperature type K	
Measuring range up to	-4 ... +600 °F
Resolution	0,1 °F
Accuracy	±(3% v.Mw. +9°C)
Temperature type K	
Measuring range up to	600 ... 1832 °F
Resolution	1 °F
Accuracy	±(3% v.Mw. +9°C)
AC voltage	
Measuring range up to	0 ... 6 V
Resolution	0,001 V
Accuracy	±(1% +5 Digits) @50 ... 60 Hz / ±(3% +5 Digits) @61 ... 1000 Hz

Overload	1000 V
Frequency range	50 ... 1000 Hz
AC voltage	
Measuring range up to	6 ... 60 V
Resolution	0,01 V
Accuracy	±(1% +5 Digits) @50 ... 60 Hz / ±(3% +5 Digits) @61 ... 1000 Hz
Frequency range	50 ... 1000 Hz
AC voltage	
Measuring range up to	60 ... 600 V
Resolution	0,1 V
Accuracy	±(1% +5 Digits) @50 ... 60 Hz / ±(3% +5 Digits) @61 ... 1000 Hz
Frequency range	50 ... 1000 Hz
AC voltage	
Measuring range up to	600 ... 1000 V
Resolution	1 V
Accuracy	±(1.2% +5 Digits) @50 ... 60 Hz / ±(3% +5 Digits) @61 ... 1000 Hz
Frequency range	50 ... 1000 Hz
Alternating current AC	
Measuring range up to	0 ... 200 µA
Resolution	0,1 µA
Accuracy	±(1.2% +8 digits)
Frequency range	50 ... 1000 Hz
Alternating current AC	
Measuring range up to	200 µA ... 600 mA
Resolution	0,1 mA
Accuracy	±(1.2 % +5 digits)
Frequency range	50 ... 1000 Hz
Alternating current AC	
Measuring range up to	600 mA ... 10 A
Resolution	0,01 A
Accuracy	±(1.5 % +5 digits)
Frequency range	50 ... 1000 Hz
Insulation resistance	
Test voltage DC	125 V
Measuring range up to	0,125 ... 6 MΩ
Resolution	0,001 MΩ
Accuracy	±(2 % +10 Digits)
Insulation resistance	
Test voltage DC	250 V

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Measuring range up to	0,25 ... 6 M Ω
Resolution	0,001 M Ω
Accuracy	±(2% +15 Digits)
Insulation resistance	
Test voltage DC	500 V
Measuring range up to	0,5 ... 6 M Ω
Resolution	0,001 M Ω
Accuracy	±(2 % +10 Digits)
Insulation resistance	
Test voltage DC	1000 V
Measuring range up to	1 ... 6 M Ω
Resolution	0,001 M Ω
Accuracy	±(3% +10 Digits)
Insulation resistance	
Test voltage DC	125 V, 250 V, 500 V, 1000 V
Measuring range up to	6 ... 60 M Ω
Resolution	0,01 M Ω
Accuracy	±(2 % +10 Digits)
Insulation resistance	
Test voltage DC	125 V, 250 V, 500 V, 1000 V
Measuring range up to	60 ... 600 M Ω
Resolution	0,1 M Ω
Accuracy	±(4% +5 digits)
Insulation resistance	
Test voltage DC	125 V, 250 V, 500 V, 1000 V
Measuring range up to	600 ... 6000 M Ω
Resolution	1 M Ω
Accuracy	±(5% +10 Digits)
Resistance	
Measuring range up to	0 ... 600 Ω
Resolution	0,1 Ω
Accuracy	±(1.2% +10 digits)
Resistance	
Measuring range up to	600 Ω ... 6 kΩ
Resolution	0,001 kΩ
Accuracy	±(1.5 % +5 digits)
Resistance	
Measuring range up to	6 ... 60 kΩ
Resolution	0,01 Ω

Accuracy	±(1.5 % +5 digits)
Resistance	
Measuring range up to	60 ... 600 kΩ
Resolution	0,1 kΩ
Accuracy	±(1.5 % +5 digits)
Resistance	
Measuring range up to	600 kΩ ... 6 M Ω
Resolution	0,001 M Ω
Accuracy	±(1.5 % +5 digits)
Resistance	
Measuring range up to	6 ... 60 M Ω
Resolution	0,01 M Ω
Accuracy	±(2.5% +10 digits)
Frequency	
Measuring range up to	40 ... 10000 Hz
Resolution	0,01 Hz
Accuracy	±(1% +5 digits)

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