

Characteristic Values

Voltage Measurement U₀

Measuring range	0 to 1000 V DC (no transient voltages)
Resolution	1 V
Accuracy	±(2% rdg. + 1 d)

Current (direct)

Measuring range	0 to 20 A DC, measuring time < 1 s
Voltage range	2 to 1000 V DC
Resolution	0.1 A
Accuracy	± (1% rdg. + 1 d)
Overcurrent protection	max. 24 A (shutdown of internal circuit)

Insulation Resistance Measurement R_{ISO}

Test voltage	250 V DC	500 V DC	1000 V DC
Measuring range	0.5 MΩ to 1 MΩ	1 MΩ to 20 MΩ	1 MΩ to 20 MΩ
Resolution	0.1 MΩ	1 MΩ	1 MΩ
Accuracy	±(1% rdg. + 1 d)	±(1% rdg. + 2 d)	±(1% rdg. + 2 d)
Limit value	> 0.5 MΩ	> 1 MΩ	> 1 MΩ
Number of measurements	approx. 1000 (with battery set per IEC LR6)		

Earth Fault Measurement

Measuring range	0 to 1000 V DC
Resolution	1 V
Accuracy	± (5% rdg. + 1 d)

Low-resistance measurement

Measuring range	0 to 10 Ω
Test Current	> 200 mA
Resolution	0.1 Ω
Accuracy	± (1% rdg. + 1 d)
Number of measurements	approx. 500 low-resistance measurements (batteries: 1.5 V per IEC LR6)

Display

LCD	Multiple display with background illumination Dot matrix: 128 x 64 pixels
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Reference Conditions

Ambient temperature	+ 23 °C ± 2 K
Relative humidity	40 to 75%
Battery voltage	6 V ± 1 V

Ambient Conditions

Operating temperature	0 to 40 °C
Storage temperature	-10 °C to 60 °C
Relative humidity	< 80%, no condensation allowed
Elevation	max. 2000 m above sea level

Power Supply

Batteries	4 ea. 1.5 V IEC LR6, AA, AM3, MN1500
Consumption	approx. 20 µA when switched off approx. < 30 mA during normal operation approx. 190 mA with background illumination

Electrical Safety

Voltage range	1000 V
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Electromagnetic Compatibility (EMC)

EMC directive	EMC 2004/108/EC
Basic standard	EN 61326-1:2006

Data Memory (PROFITEST PVSUN MEMO only)

Memory capacity	max. 10,240 data records
Memory type	non-volatile flash memory (data are retained even if batteries are depleted)

Data Interface (PROFITEST PVSUN MEMO only)

Type	USB 2.0 (USB 2.0 full speed (12 Mbps) compatible)
Port	mini USB type B (5-pin)
Cable	USB 2.0 cable (A plug mini B plug)

Mechanical Design

Protection	Housing: IP 42 per DIN VDE 0470 part 1/EN 60529
Dimensions	209 x 98 x 35 mm
Weight	approx. 500 g with batteries