

Current Probe SC.3C 1000A / 1V

The SC.3C 1000A / 1V current probe is based on Hall Effect technology for use in measurement of both DC and AC current. The SC.3C 1000A / 1V may be used in conjunction with multimeters, recorders and other suitable equipment for accurate non intrusive current measurement.



Electrical Characteristics

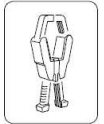
Current Range	: 1000 A AC _{RMS} or DC
Measuring Range.....	: ±1200 A
Output Sensitivity.....	: 1 mV/A
Resolution.....	: ± 200 mA
Load Impedance	: ≥ 1MΩ and ≤ 100 pF
Bandwidth	: DC to 10 kHz (-3dB)
Conductor Position Sensitivity.....	: ± 1.5% relative to centre reading
Temperature Coefficient	: ± 0.1% of reading / °C
Power Supply.....	: 9 V Alkaline, MN1604/PP3
.....	: 75 Hours, low battery indicator
Working Voltage (see Safety Standards section)	: 600 V AC _{RMS} or DC

Accuracy

Primary Current	10 to 100A	100 to 500 A	500 to 1000A
Accuracy (of rdg)	±2%±5 mV	±2%	±1%
Phase Error	not specified	< 1°	< 1°

General Characteristics

Maximum Conductor Size.....	: 50 mm diameter
Output Connection.....	: 4mm sockets
Zero	: Manual adjust via thumbwheel
Operating Temperature Range	: 0 to +50 °C
Storage Temperature Range (with battery removed).....	: -20 to +85 °C
Operating Humidity	: 15% to 85% (non condensing)



Reference conditions: Temperature : +18°C to 26 °C, humidity: 20 to 75% RH, sinusoidal current: 48 to 65Hz, distortion factor: < 1%, DC current: none, DC magnetic field: none, alternating magnetic field: none, proximity of external conductor: none, primary conductor: centred in the aperture, load impedance: $\geq 1\text{M}\Omega$, <100pF for voltage output.

Safety Standards

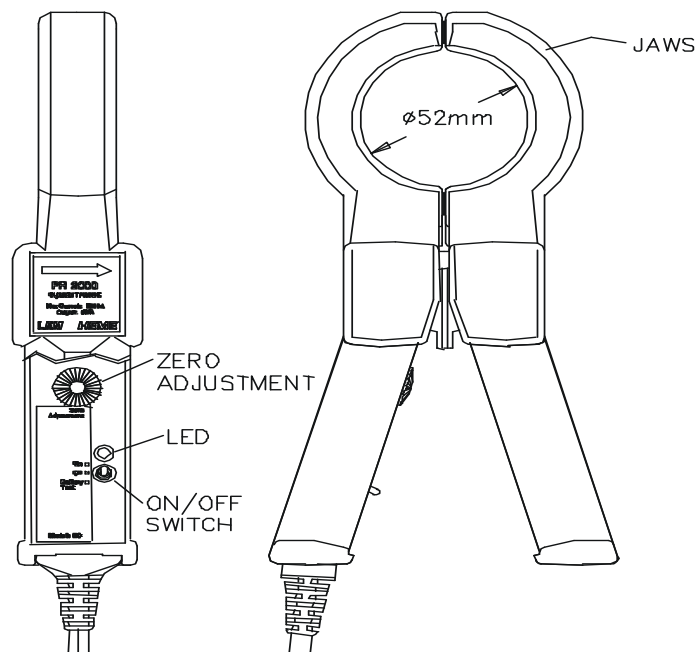
IEC61010-1: 2010
IEC61010-2-032: 2012
IEC61010-2-031: 2008

600 V_{RMS}, Category III, Pollution Degree 2

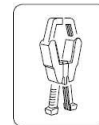
Use of the probe on **uninsulated conductors** is limited to 600 V AC_{RMS} or DC and frequencies below 1 kHz.

Dimensions

in mm



Specifications subject to change without notice



Note : version shown with cable output

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