Universal Technic

Current Probe Model SM.UB 1000A / 1V

The SM.UB 1000A/1V current probe has been designed for use with multimeters, recorders, power analysers, safety testers etc. for accurate non intrusive measurement of AC current. Using the latest transformer technology, the SM.UB 1000A/1V can measure currents from 1A to 1200A over a frequency range of 30Hz to 10kHz.

Electrical Characteristics

Nominal Current I_N ..... : 1000 A_{RMS}
Continuous Measuring Range ..... : 1A to 1200 A_{RMS}
Output Sensitivity ..... : 1 mV / A
Conductor Position Sensitivity..... : 0.5% @ 50Hz
Error due to adjacent conductor..... : ≤ 1mA / A @ 50 Hz
Turns Ratio ..... : 1000:1
Load Impedance ..... : ≥ 10 kOhm
Frequency Range ..... : 30 Hz to 10 kHz
Temperature Coefficient..... : 0.01% / °C
Working Voltage (see Safety Standards section) ..... : 600 V AC_{RMS} or DC

Accuracy

Primary current	100mA to 1A	1A to 10A	10A to 100A	100A to 1200A
Accuracy (of rdg)	2% ± 0.1mV	1% ± 0.5mV	0.5% ± 0.1mV	0.5%
Phase shift (typ)	Non spécifié	Not specified	< 1°	< 0.5°

General Characteristics

Maximum Conductor Size ..... : 54 mm diameter
Standard output Connection ..... : 4 mm safety sockets
Operating Temperature Range ..... : -10 to +55 °C
Storage Temperature Range ..... : -40 to +70 °C
Operating Humidity ..... : 15% to 85% (non condensing)
Weight..... : 650 g

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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: 40 A/m earth's magnetic field, alternating magnetic field: none, proximity of external conductor: none, primary conductor: centred in the aperture, load impedance: ≥1MΩ, <100pF for voltage output

Safety Standards

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

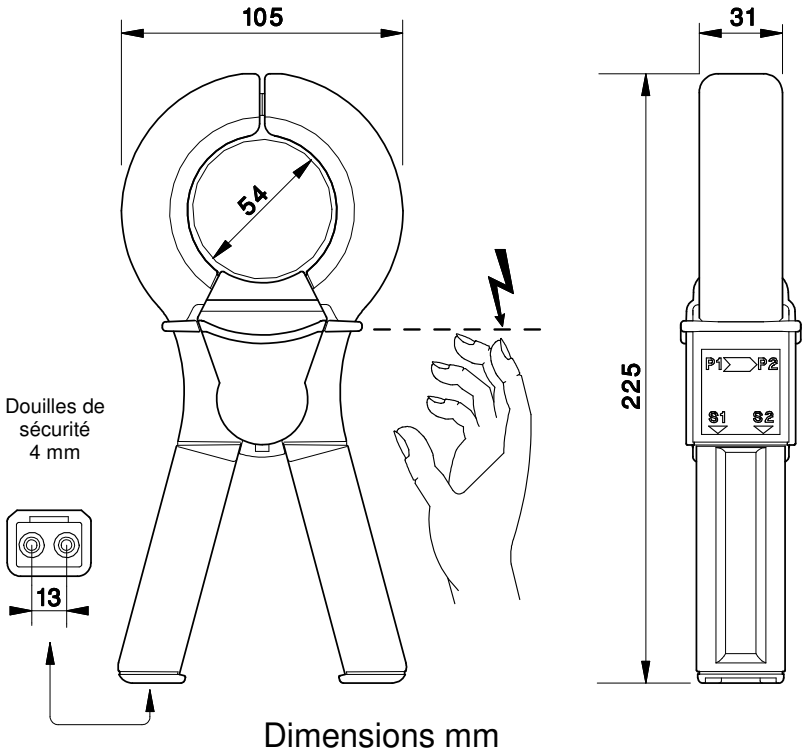
600 V_{RMS}, Category III, Pollution Degree 2

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

EMC Standards

EN 61326 :1998

Dimensions



Dimensions mm

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