

Current Probe Model PR1001

The PR1001 current probe is based on Hall Effect technology for use in measurement of both DC and AC current. The PR1001 may be used in conjunction with multimeters, recorders and other suitable equipment for accurate non intrusive current measurement.



Electrical Characteristics

Current Ranges.....	: 200 A AC _{RMS} or DC and : 1000 A AC _{PK} or DC
Measuring Ranges.....	: ± 300 A and ± 1000 A
Output Sensitivity.....	: 1 mV/A (200 A/1000 A ranges)
Accuracy (at +25°C).....	: ± 1% of reading ± 500 mA
Resolution.....	: ± 100 mA
Load Impedance.....	: > 10 k Ohms and ≤ 100 pF
Conductor Position Sensitivity.....	: ± 1.5% relative to centre reading
Frequency Range.....(small signal).....	: DC to 10 kHz (- 1 dB)
Temperature Coefficient.....	: ± 0.1% of reading / °C
Power Supply.....	: 9 V Alkaline, MN1604/PP3 : 50 Hours, low battery indicator
Working Voltage (see Safety Standards section).....	: 300 V AC _{RMS} or DC

General Characteristics

Maximum Conductor Size.....	: 31 mm diameter
Output Connection.....	: 4mm safety plugs
Output Zero.....	: Manual adjust via thumbwheel
Cable Length.....	: 1.5 meters
Operating Temperature Range.....	: 0 to +50 °C
Storage Temperature Range (with battery removed).....	: -20 to +85 °C
Operating Humidity.....	: 15% to 85% (non condensing)
Weight.....	: 295 g

Safety Standards

BSEN61010-1: 1993 and Amendment A2: July 1995

BSEN61010-2-032: 1995

BSEN61010-2-031: 1995

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

Use of the probe on **uninsulated conductors** is limited to 300 V AC_{RMS} or DC and frequencies below 1 kHz.

EMC Standards

EN61326 :1998

Dimensions

