

Current Probe Model PR1030

The PR1030 current probe is based on Hall Effect technology for use in measurement of both DC and AC current. The PR1030 may be used in conjunction with oscilloscopes and other suitable recording instruments for accurate non-intrusive current measurement.



Electrical Characteristics

Current Ranges.....	: 100 A and 1000 A AC _{RMS} or DC
Measuring Ranges.....	: ± 140 A and 1400 A
Output Sensitivity.....	: 10 mV/A (100 A)
.....	: 1 mV/A (1000 A)
Accuracy (at +25°C).....(100A range).....	: ± 1% of reading ± 100 mA
.....(1000A range).....	: ± 1% of reading ± 500 mA
Resolution.....	: ± 100 mA (100 A)
.....	: ± 200 mA (1000 A)
Load Impedance.....	: > 10 k Ohms and ≤ 100 pF
Conductor Position Sensitivity.....	: ± 1.5% relative to centre reading
Frequency Range.....(small signal).....	: DC to 20 kHz (- 2 dB)
Phase Shift below 2 kHz.....	: < 2 degrees
Power Supply.....	: 9 V Alkaline, MN1604/PP3
.....	: 40 Hours, low battery indicator
Temperature Coefficient.....	: ± 0.1% of reading per °C
Working Voltage (see Safety Standards section).....	: 300 V AC _{RMS} or DC

General Characteristics

Maximum Conductor Size.....	: 31 mm diameter
Output Connection.....	: safety BNC connector
Output Zero.....	: Manual adjust via thumbwheel
Cable Length.....	: 2 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

in mm

