

Current Probe Model PR 55

The PR55 current probe is based on Hall Effect technology for use in measurement of both DC and AC & complex waveform currents with bandwidths upto 1 MHz. The PR55 may be used in conjunction with oscilloscopes and other suitable recording instruments for accurate non-intrusive current measurement.



Electrical Characteristics

Current Range.....	: 50 A AC _{RMS} or DC
Measuring Range.....	: ± 70 A _{PK} continuous
Maximum Current.....	: 500 A for 1 μ sec
Output Sensitivity.....	: 20 mV/A
Resolution.....	: 1 mA
Response Time.....	: 1 μ sec max.
Noise.....	: 1 mA _{RMS} typical
Accuracy.....	: $\pm 1\%$ of reading ± 50 mA
Load Impedance.....	: ≥ 100 k Ω
Frequency Range.....	: DC to 1 MHz (- 3 dB)
Temperature Coefficient.....	: $\pm 0.05\%$ of reading / $^{\circ}$ C
Offset Drift.....	: ± 0.2 mV / $^{\circ}$ C
Power Supply.....	: +15 V DC (200 mA min)
Working Voltage (see Safety Standards section)	: For use with insulated conductors
.....	: only, 30 V maximum between
.....	: output and Earth

General Characteristics

Maximum Conductor Size	: 12 mm diameter
Output Connection	: Female BNC safety connector
Power Supply Connection.....	: Socket for 2.1mm female jack
Operating Temperature Range	: 0 to +50 $^{\circ}$ C
Storage Temperature Range.....	: -10 to +80 $^{\circ}$ C
Operating Humidity	: 0% to 80% (non condensing)
Weight.....	: 150 g

Supplied Accessories:	: 1.5m BNC to BNC extension
.....	: 1.5m cable with EIAJ plug for
.....	: connection to bench power supply

Optional Accessories:	: PSUPR55 15V Power Supply
.....	: with UK, EURO, USA/AJAPAN,
.....	: AUST interchangeable adaptors

Safety Standards

BSEN61010-1: 1993 and Amendment A2: July 1995

BSEN61010-2-032: 1995

BSEN61010-2-031: 1995

Suitable only for use in SELV (Safe Extra Low Voltage) applications.
30V maximum between output and Earth.

EMC Standards

EN61326: 1998

Dimensions

in mm

