

# AC/DC Current Probe

## Model CP 1800\_10

**P/N: P-03.680.4**



### Electrical Characteristics

Measuring Range .....	: 1800 A AC peak or DC
Overload Capability .....	: 2000 A
Output Sensitivity .....	: 2.5 mV/A (w.r.t. 0 V)
DC Accuracy (0 – 1000A) <sup>1</sup> .....	: ± 0.8% of reading ± 0.5A
DC Accuracy (1000 – 1500A) <sup>1</sup> .....	: ± 1.8% of reading
Overall Accuracy (0 – 1000A) <sup>2</sup> .....	: ± 2.5% of reading
Overall Accuracy (1000 – 1500A) <sup>2</sup> .....	: ± 3.5% of reading
Overall Accuracy (1500 – 1800A) <sup>2</sup> .....	: ± 5.0% of reading
Resolution .....	: ± 100 mA
Zero Offset (at +25°C) .....	: ± 10 mV max
Zero Drift .....	: ± 40 mV max
Load Impedance .....	: > 10 kΩ
External Field Rejection (at 1800 A DC) .....	: 30 : 1
Frequency Range .....	: DC to 4 kHz (-3dB)
.....	: I <sub>RMS</sub> x f ≤ 400,000
Temperature Coefficient .....	: ± 0.05% of reading / °C
Power Supply .....	: ± 12 V to ± 5 % external
Current Consumption .....	: 25 mA
Working Voltage (see Safety Standards section) .....	: 300 V AC <sub>RMS</sub> or DC

### General Characteristics

Maximum Conductor Size .....	: 32 mm diameter
Relative Zero Correction .....	: External zero correction
Output Connection .....	: 2.9 m un-terminated
Operating Temperature Range .....	: 0 to +60 °C
Storage Temperature Range .....	: -20 to +85 °C

<sup>1</sup> Accuracy quoted for conductor in centre of aperture

<sup>2</sup> Accuracy includes linearity and conductor position sensitivity using a 6 mm diameter cable

Accuracies quoted at +25° C

## Connection Details

Colour	Function
Red	+ Supply
Blue	- Supply
Grey	0V
Brown	Output
White	Output (0V)

## Safety Standards

EN 61010-1  
EN 61010-2-032

300 V<sub>RMS</sub>, Category II, Pollution Degree 2

Output limited to 30V to Earth (Un-terminated)

Use of the probe on **uninsulated conductors** is limited to 300 V AC<sub>RMS</sub> or DC and frequencies below 1 kHz.

## EMC Standards

EN 61326-2-2

## Dimensions (in mm)

