

AC/DC Current Probe

Model CP 300_1

P/N : P-12.460.3



Electrical Characteristics

Current Range.....	: 300A DC or AC pk
Continuous Current measurement.....	: 150A DC or AC rms
Peak current mark space ratio.....	: 1 min in 10 mins
Overload capability.....	: 500A DC (for 1 min)
Output Sensitivity	: 20mV/A (w.r.t. 0V)
Accuracy (+25 °C).....	: ± 1% of reading ± 2mA
Resolution	: ± 1mA
Error due to Earth's Magnetic Field.....	: ± 0.5mV (±10mA) Typical
Conductor Position Sensitivity (6mm. dia. conductor) ...	: ± 0.5% relative to centre reading
Zero Offset (+25 °C).....	: ± 10mV max.
Zero Drift (0 °C to +50 °C).....	: ± 1mV / °C
Load Impedance	: > 10kΩ and ≤ 100pF
Frequency Range.....	: DC to 100kHz (- 1dB)
di/dt Response.....	: 30A/μs
Temperature Coefficient.....	: ± 0.02% of reading / °C
Jaws Open Status	: 0V (Lo)
Jaws Closed Status.....	: + 15V (Hi)
Power Supply	: ± 15V ± 10%, external
External Field Rejection Ratio.....	: 500 : 1
Current Consumption	: 30mA + 1mA/A measured
Working Voltage (see Safety Standards section).....	: 300V AC _{RMS} or DC

General Characteristics

Maximum Conductor Size	: 32mm diameter
Relative zero correction.....	: Auto zero at switch on
Jaws Open Indication.....	: Red LED on front and back side of case
Output Connection	: 2.9m screen cable
Operating Temperature Range.....	: 0 to +60°C
Storage Temperature Range.....	: -20 to +85°C
Operating Humidity	: 15% to 85% (non condensing)

Connection Details

Colour	Function
Red	+ Supply
Green	0 V
Blue	- Supply
White	+ Output
Black	- Output (0V)
Yellow	Jaw Switch
Outer Screen	Not Connected

Safety Standards

EN 61010-1
EN 61010-2-032

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

30V max (output) i.e. only suitable for use in Safe Extra Low Voltage applications unless fitted with a suitable connector

EMC Standard

EN 61326-2-2

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

Dimensions

(In mm)

