

AC/DC Current Probe

Model CP 30_13

P/N: P-12.201.9



The CP 30_13 current probe is based on Hall Effect technology for use in measurement of both DC and AC current.

Electrical Characteristics

| | |
|--|---------------------------------|
| Measuring Range | : 30 A DC or AC _{PEAK} |
| Overload Capacity | : 500 A |
| Output Sensitivity | : 100 mV/A (w.r.t 0V) |
| DC Accuracy (at +25°C) | : ± 1% of reading ± 2 mA |
| Linearity | : ± 0.2% |
| Resolution | : ± 1 mA |
| di/dt Response | : 20A / μs |
| Response time | : better than 1 μs |
| Load Impedance | : > 50 kΩ |
| Frequency Range | : DC to 20 kHz (-3 dB) |
| Temperature Coefficient | : ± 0.01% of reading per °C |
| Zero Drift | : ± 50 mV max |
| Power Supply | : + 12 V ± 5%, external |
| Current Consumption | : 30 mA + 1 mA/A measured |
| External Field Rejection (at 50 A DC) | : 350 : 1 |
| Working Voltage (see Safety Standards section) | : 300V AC _{RMS} or DC |

General Characteristics

| | |
|-----------------------------------|---|
| Maximum Conductor Size | : 32 mm diameter |
| Output Connection | : 5 m long screened cable, un-terminated |
| Output Zero | : External zero correction |
| Operating Temperature Range | : 0 to +50 °C |
| Storage Temperature Range | : -20 to +85 °C |

Connection Details

| Colour | Function |
|--------|---------------|
| Red | + 12 V |
| Green | 0 V PSU |
| White | Output + |
| Black | Output - |
| Screen | No Connection |

Safety Standards

EN 61010-1
EN 61010-2-032

300 V_{RMS}, Category I, Pollution Degree 2 – **Probe must be terminated using equivalent rated connector**

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

EMC Standards

EN 61326

Dimensions

(In mm)

