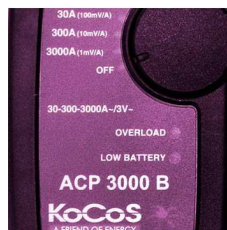


Specifications ACP 3000 B



The ACP 3000 B current probe from KoCoS can be used in conjunction with a wide range of measuring devices to measure alternating currents up to 3000 A. A choice of three measuring ranges makes for accurate measurement of high and low currents alike. The probe can be used for current measurements on conductors such as cables or busbars. The flexible measuring head makes it ideally suitable for use in awkward places which are difficult to access. The probe delivers a voltage output signal of up to 3 V and can be powered by internal batteries or an external power supply unit.

Electrical Characteristics

| | |
|---|--|
| Current ranges selectable via rotary switch | 30 A / 300 A / 3000 AAC |
| Output sensitivity (AC coupled) | 100 mV / 10 mV / 1 mV/A |
| Accuracy (at 25°C) | ±1% of reading+0.1A (30 A range) ±1% of reading+1A (300 A / 3000 A range) |
| Load impedance | 100 kΩ min |
| Linearity (10...100% of range) | ±0.2% of reading |
| Noise | 80 mA (30 A) / 400 mA (300 A / 3000 A) |
| Bandwidth (-1 dB) | 10 Hz...10 kHz |
| Phase error (45...65 Hz) | ±<1° |
| Temperature coefficient | ±0.1% of reading / °C |
| Position sensitivity | ±2.0% of reading |
| External field (with cable >100 mm from the head) | ±0.2% of range |
| Power supply | Powered by battery or external power supply |
| Overload indication | Red LED ON indicates the range overload |
| Working voltage (see Safety Standards section) | 1000 V AC/DC (probe and integrator) 30 V max. (output) |

General Characteristics

| | |
|--|---|
| Probe and cable material | Alcryn, LATENE |
| Probe cable length | 610 mm(24") |
| Probe cable diameter | 9.9 mm (nominal) |
| Cable length (probe to integrator box) | 2 m |
| Output | 0.5 m long lead terminated with 4 mm safety plugs |
| Operating temperature range | -20...+65°C |
| Storage temperature range | -40...+75°C |
| Operating humidity | 15%...85% (non-condensing) |
| Degree of protection | IP65 probe, IP40 integrator module |
| Head colour | Red |

ROHS and WEEE compliant

Safety Standards

EN 61010-1:2001
EN 61010-031:2002
EN 61010-2-032:2002

1000 V, category III, 600 V, category IV, pollution degree 2 (probe and integrator)

Use of the probe on uninsulated conductors is limited to 1000 VAC or DC and frequencies below 1 kHz.

www.kocos.com

Doc. 7619101 Rev. 1.00

Technical specifications subject to change without prior notice

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