

ACP 3000 B. SPECIFICATIONS



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

Output sensitivity (AC coupled)

Accuracy (at 25 °C)

Load impedance

Linearity (10...100% of range)

Noise

Bandwidth (-1 dB)

Phase error (45...65 Hz)

Temperature coefficient

Position sensitivity

External field (with cable >100 mm from the head)

Power supply

Overload indication

Working voltage (see Safety Standards section)

30 V max. (output)

30 A / 300 A / 3000 AAC

100 mV / 10 mV / 1 mV/A

±1% of reading+0.1A (30 A range)

±1% of reading+1A (300 A / 3000 A range)

100 kΩ min

±0.2% of reading

80 mA (30 A) / 400 mA (300 A / 3000 A)

10 Hz...10 kHz

±<1°

±0.1% of reading / °C

±2.0% of reading

±0.2% of range

Powered by battery or external power supply

Red LED ON indicates the range overload

1000 V AC/DC (probe and integrator)

General Characteristics

Probe and cable material

Probe cable length

Probe cable diameter

Cable length (probe to integrator box)

Output

Operating temperature range

Storage temperature range

Operating humidity

Degree of protection

Head colour

Alcryn, LATENE

610 mm(24")

9.9 mm (nominal)

2 m

0.5 m long lead terminated with 4 mm safety plugs

-20...+65 °C

-40...+75 °C

15%...85% (non-condensing)

IP65 probe, IP40 integrator module

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.