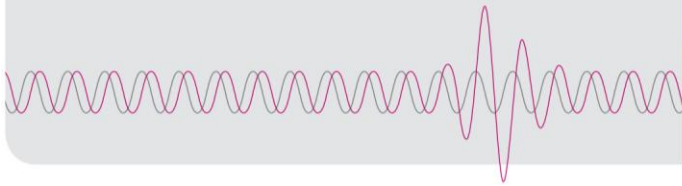


ACP 3000.

SPECIFICATIONS



The ACP 3000 current probe can be used in conjunction with the EPPE Power Quality Analyser 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 can be powered by the connected analyser device and delivers a voltage output signal of up to 2 V.

Electrical Characteristics

Current ranges selectable via rotary switch	30 A / 300 A / 3000 AAC
Output sensitivity (AC coupled)	66.7 mV / 6.67 mV / 0.667 mV/A
Accuracy (at 25°C)	±1% of reading+0.1 A (30 A range) ±1% of reading+1 A (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 EPPE Power Quality Analyser
Overload indication	Red LED ON indicates the range overload
Working voltage (see Safety Standards section)	1000 V AC or 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 with 5-pole plug to fit EPPE
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.