

New Flexible AC Current Probe

ACP Flex 3000_1



The NEW ACP *FLEX 3000_1* is an AC current Probe utilising the Rogowski principle. It can be used to measure currents up to 3000 Amps from very low frequencies to 10 kHz. The flexible and lightweight measuring head allows quick and easy installation in hard to reach areas and with large conductors.

IP 65

Electrical Characteristics

Current Ranges (selectable via rotary switch).....	: 30 A / 300 A / 3000 A AC _{RMS}
Output Sensitivity (AC coupled)	: 50 mV / 5 mV / 0.5 mV / A
Accuracy (at 25°C)	: ± 1% of range (45-65 Hz)
Load Impedance.....	: 100 kΩ minimum
Linearity (10% to 100% of range)	: ± 0.2% of reading
Noise.....	: 80 mA / 400 mA
Bandwidth (-3dB).....	: 10Hz to 10 kHz
Phase Error (45 – 65Hz).....	: ± <1°
Temperature Coefficient.....	: ± 0.1% of reading / °C
Position Sensitivity	: ± 2 % of reading
External Field (with cable > 100mm from the head).....	: ± 0.2% of range
Power Supply.....	: 2 x AA MN 1500 LR6 Alkaline
.....	: 2000 hours, low battery indicator
.....	: external power supply (3V/100mA)
Overload Indication.....	: Red LED ON indicates the range overload
Working Voltage (see Safety Standards section).....	: 1000V AC _{RMS} or DC (Probe and Integrator)
.....	: 30V max (Output)

General Characteristics

Probe and Cable Material.....	: Alcryn 2070 NC double insulated,
.....	: UL94 V-0
Couplings Material.....	: Ultramid A3U Q720, UL94 V-0
Probe Cable Length (s)	: 610mm (24")/915 mm (36")/1220 mm (48")
Probe Cable Diameter	: 9.9 mm (nominal)
Cable Length (Probe to Integrator box)	: 2 m
Output	: 0.5 m long flying lead
.....	: terminated with 4mm safety plugs
Operating Temperature Range.....	: -20 to +80°C
Storage Temperature Range.....	: -40 to +90°C
Operating Humidity.....	: 15% to 85% (non condensing)
Degree of protection (Probe)	: IP65 Probe, IPx Integrator module
Colour.....	: Probe Yellow Green,
.....	: Output Cable Black.

ROHS and WEEE Compliant

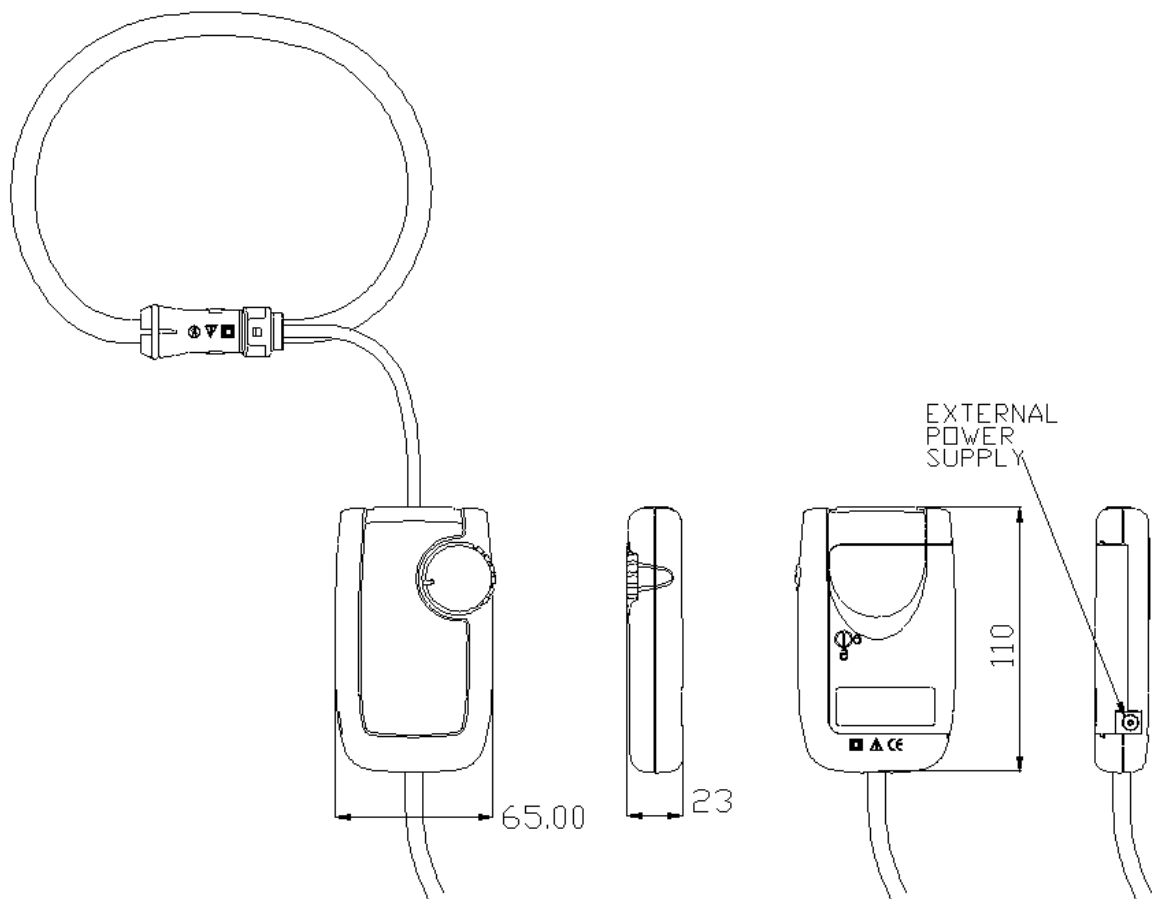
UL approved

Safety Standards

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

1000 V_{RMS}, Category III, 600 V_{RMS}, Category IV, Pollution Degree 2 (Probe and Integrator)

Use of the probe on uninsulated conductors is limited to 1000 V AC_{RMS} or DC and frequencies below 1 kHz.



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