

## 3 Phase Flexible AC Current Probe Model ACP 6003\_3

**P/N: P-02.762.1      ACP 6003\_3/24**  
**P/N: P-02.762.2      ACP 6003\_3/36**  
**P/N: P-02.762.3      ACP 6003\_3/48**



**IP 65**

The ACP 6003\_3 is a 3 Phase AC current Probe utilising the Rogowski principle. It can be used to measure currents up to 6000 Amps from very low frequencies to 20kHz. The flexible and lightweight measuring head allows quick and easy installation in hard to reach areas and with large conductors.

### Electrical Characteristics

Current Ranges (selectable via rotary switch) .....	60A / 600A / 6000A AC <sub>RMS</sub>
Output Sensitivity (AC coupled) .....	50mV / 5mV / 0.5mV per A
Accuracy (45 - 65Hz) .....	± 1% of reading ± 0.1A (60A range)
.....	± 1% of reading ± 1A (600A / 6000A range)
Load Impedance.....	100kΩ minimum
Linearity (10% to 100% of range) .....	± 0.2% of reading
Noise .....	80mA (60A) / 400mA (600A / 6000A range)
Bandwidth (-1dB).....	10Hz to 10kHz
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) .....	± 0.25% of range
Power Supply .....	2 x AA MN 1500 LR6 Alkaline
.....	1000 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 <sub>RMS</sub> or DC (Probe and Integrator)
.....	30V max (Output)

### General Characteristics

Probe Material .....	Alcryn 2070 NC LATENE 7H2W V0
Probe Cable Length.....	610mm (24") 915 mm (36")/1220 mm (48")
Probe Cable Diameter.....	9.9mm (nominal)
Cable Length (Probe to Integrator box) .....	2m
Output.....	0.5m long cable terminated with
.....	3 x safety male BNC
Operating Temperature Range .....	-20 to +65°C
Storage Temperature Range .....	-40 to +75°C
Operating Humidity.....	15% to 85% (non condensing)
Degree of protection.....	IP65 Probe, IP4x Integrator module
Colour .....	RAL 120 70 75 Lemon green

### ROHS and WEEE Compliant



## Safety Standards

EN 61010-1  
EN 61010-2-032

UL 610101, 2<sup>nd</sup> Edition, 2005-07-22  
CAN/CSA-22.2 No. 61010-1, 2<sup>nd</sup> Edition, 2004-07

1000 V<sub>RMS</sub>, Category III, 600 V<sub>RMS</sub>, Category IV, Pollution Degree 2 (Probe and Integrator)

Use of the probe on uninsulated conductors is limited to 1000 V AC<sub>RMS</sub> or DC and frequencies below 1 kHz.

## EMC Standard

EN 61326-2-2

## Dimensions (in mm)

