

# PRO-flex ACP 3000\_1

## Single Phase AC Current Probe

ACP3000\_1\_081003\_07



The new PRO-flex ACP 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 10kHz.

The flexible and lightweight measuring head allows quick and easy installation in hard to reach areas and with large conductors.



### Electrical Characteristics

<b>Current Ranges</b>	30A / 300A / 3000A AC RMS (selectable via rotary switch)
<b>Output Sensitivity</b>	50mV / 5mV / 0.5mV per A (AC coupled)
<b>Accuracy (at 25°C)</b>	± 1% of reading ± 0.1A (30A range) ± 1% of reading ± 1A (300A / 3000A range)
<b>Load Impedance</b>	100kΩ minimum
<b>Linearity</b>	± 0.2% of reading (10% to 100% of range)
<b>Noise</b>	80mA (30A) / 400mA (300A / 3000A range)
<b>Bandwidth</b>	10Hz to 10kHz (-1dB)
<b>Phase Error</b>	± <1° (45 – 65Hz)
<b>Temperature Coefficient</b>	± 0.08% of reading / °C
<b>Position Sensitivity</b>	± 2% of reading
<b>External Field</b>	± 0.2% of range (with cable > 100mm from the head)
<b>Power Supply</b>	2 x AA MN 1500 LR6 Alkaline low battery indicator external power supply (3V / 100mA)
<b>Battery Life</b>	2000 hours
<b>Overload Indication</b>	Red LED ON indicates the range overload
<b>Working Voltage</b> (see Safety Standards section)	1000V AC RMS or DC (Probe and Integrator) 30V max (Output)

### General Characteristics

<b>Probe and Cable Material</b>	Alcryn 2070 NC LATENE 7H2W V0
<b>Probe Cable Length</b>	610mm (24") / 915mm (36") / 1220mm (48")
<b>Probe Cable Diameter</b>	9.9mm (nominal)
<b>Cable Length</b>	2m (Probe to Integrator box)
<b>Output</b>	0.5m long lead terminated with a safety male BNC
<b>Operating Temperature Range</b>	-20 to +65°C
<b>Storage Temperature Range</b>	-40 to +75°C
<b>Operating Humidity</b>	15% to 85% (non condensing)
<b>Degree of protection</b>	IP65 Probe, IP40 Integrator module
<b>Colour</b>	RAL 120 70 75 Lemon green

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### Safety Standards

- EN 61010-1:2001
- EN 61010-031:2002
- EN 61010-2-032:2002
- UL 610101, 2nd Edition, 2005-07-22
- CAN/CSA-22.2 No. 61010-1, 2nd Edition, 2004-07

1000 VRMS, Category III, 600 VRMS, Category IV, Pollution Degree 2  
(Probe and Integrator)

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

### Compatible Instruments

**Dranetz-BMI Power Monitors** PX5, PG4400, PV440, PP4300, PP1  
**Multimeters, Oscilloscopes, PQ Recording Devices**  
 Can be connected to most measuring instruments including multimeters, oscilloscopes PQ recording devices.  
 [Note: most of these devices have 4mm banana jack inputs and would require a standard BNC-to-Double Banana adapter.]

### Ordering Information

Part No.	Model
<b>P-02.712.2</b>	<b>ACP 3000_1/24</b>
<b>P-02.712.3</b>	<b>ACP 3000_1/36</b>
<b>P-02.712.4</b>	<b>ACP 3000_1/48</b>

