

# PRO-flex ACP 5000\_5

## Single Phase AC Current Probe

ACP5000\_5\_081003\_07



The new PRO-flex ACP 5000\_5 is an AC current probe utilizing the Rogowski principle. It can be used to measure currents up to 5000 A 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>	50A / 500A / 5000A 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 (100A range) ± 1% of reading ± 1A (100A / 5000A range)
<b>Load Impedance</b>	100kΩ minimum
<b>Linearity</b>	± 0.2% of reading (10% to 100% of range)
<b>Noise</b>	80mA (100A) / 400mA (1000A / 5000A range)
<b>Bandwidth</b>	10Hz to 10kHz (-1dB)
<b>Phase Error</b>	± <1° (45 – 65Hz)
<b>Temperature Coefficient</b>	± 0.1% 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

AUTHORIZED DISTRIBUTOR



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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)

**Limitations** Use of the probe on uninsulated conductors is limited to 1000 V AC RMS or DC and frequencies below 1 kHz.

**Compliance** ROHS and WEEE

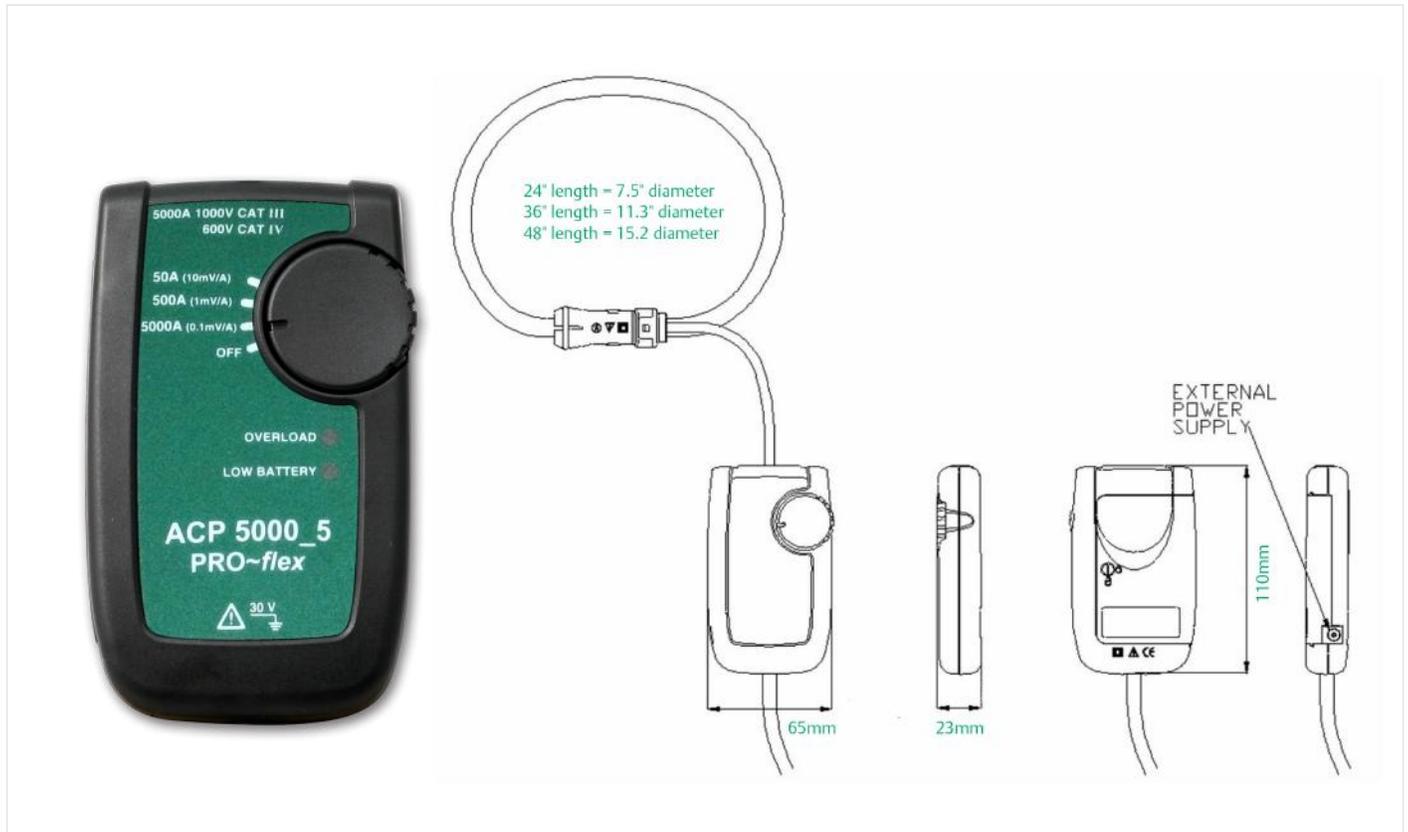
### Compatible Instruments

**Hioki Power Monitors**  
**Multimeters, Oscilloscopes,**  
**PQ Recording Devices**

Hioki 3169, 3196 and 3197  
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
P-02.750.0	ACP 5000_5/24
P-02.750.1	ACP 5000_5/36
P.02.750.2	ACP 5000_5/48



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