

PRO-flex ACF 5000_3

Single Phase AC Current Probe

ACF5000_3_081003_07



The new PRO-flex ACF 5000_3 is an AC current Probe utilising the Rogowski principle. It can be used to measure currents up to 5000 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

Current Ranges	100A / 1000A / 5000A AC RMS (selectable via rotary switch)
Output Sensitivity	20mV / 2mV / 0.4mV per A (AC coupled)
Accuracy (at 25°C)	± 1% of reading ± 0.1A (100A range) ± 1% of reading ± 1A (100A / 5000A range)
Load Impedance	100kΩ minimum
Linearity	± 0.2% of reading (10% to 100% of range)
Noise	80mA (100A) / 400mA (1000A / 5000A range)
Bandwidth	10Hz to 10kHz (-1dB)
Phase Error	± <1° (45 – 65Hz)
Temperature Coefficient	± 0.1% of reading / °C
Position Sensitivity	± 2% of reading
External Field	± 0.2% of range (with cable > 100mm from the head)
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 LATENE 7H2W V0
Probe Cable Length	610mm (24") / 915mm (36") / 1220mm (48")
Probe Cable Diameter	9.9mm (nominal)
Cable Length	2m (Probe to Integrator box)
Output	0.5m long lead terminated with a 6-pin male LEMO
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, IP40 Integrator module
Colour	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)

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

Fluke Power Monitors Fluke 1750, Fluke (RPM) Power Recorder

Ordering Information

Part No.	Model
P-01.750.0	ACF 5000_3/24
P-01.750.1	ACF 5000_3/36
P-01.750.2	ACF 5000_3/48

