

# MICRO ~ flex FLEXIBLE AC Current Probes ACP 1000 SERIES

## Accurate, Thin and Flexible

- Three ranges 10/100/1000A
- 3 Standard conductor diameters 50/70/100mm
- Easy to insert probe in confined spaces
- 2 Models Single Phase and Three Phase
- Wide dynamic range 100mA to 1000A AC<sub>RMS</sub>
- 1000V, CAT III, Pollution degree 2
- Excellent response to rapid current changes
- External power supply option
- Compact lightweight design
- No magnetic hysteresis, saturation or non linearity



## High Accuracy and Wide Dynamic Range

Advanced coupling design results in minimal effect of external magnetic fields and off-centre conductor positioning on probe accuracy.

## EN 61010-2-032:2002 and EMC Conformance

Safety features provide the user with confidence when making measurements in hazardous voltage areas. Conformance to EMC standards ensures high reliability through reduced susceptibility to electromagnetic interference.

## TYPICAL APPLICATIONS

- Connection to most measuring instruments including multimeters, oscilloscopes or recording devices
- Development and servicing of power electronic equipment
- Analysis of complex current waveforms
- Analysis of harmonics, power measurements, measurement of peak loads in mains and in UPS.
- Measurement of starting transients of electric motors

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## SPECIFICATIONS

### NON-INVASIVE AC CURRENT MEASUREMENT

MODEL	ACP 1000_3	ACP 1003_3
Current Ranges (RMS)	10 / 100 / 1000A	
Output Sensitivity	100mV / 10mV / 1mV / A	
Noise (AC rms)	0.1A (10A/100A range), 1A (1000A range)	
Linearity	± 0.2% of reading	
Basic Accuracy	± 1% of reading ± 0.1A (10/100A) / ± 1A (1000A range)	
Conductor position sensitivity	± 2.5% of reading	
Frequency Range (-2dB)	20Hz to 10kHz	
Phase shift (45 – 65Hz)	<1 degree	
Load Impedance	> 100 kOhms	
Output connection	0.5m coax terminated with safety male BNC connector	

### ENVIRONMENTAL DATA

Operating Temperature	-20°C to +65°C (-4°F to 149°F)
Temperature Coefficient	± 0.15% of reading per °C (± 0.1% of reading per °F)
Storage Temperature (without battery)	-40°C to +75°C (-40°F to 167°F)

### POWER SUPPLY

Battery type	2 x AA MN 1500 LR6 Alkaline
Battery life	1000 hours ACP 1000_3 300 hours ACP 1003_3
External Power Supply	3V / 100mA

### MECHANICAL DATA

Dimensions (mm)	110 (H) x 65 (W) x 23 (D)
Probe cable diameter	6mm
Cable length	2m (Probe to Integrator)
Probe Conductor Diameters	50mm (2"), 70mm (3") and 100mm (4")

**GMC-I PROSyS Ltd. offer a wide range of non-invasive Probes and Clamp Meters for the measurement and analysis of Current and Voltage**

### SAFETY

EN61010-2-032:2002,  
EN 61010-031:2002  
EN 61010-1:2001  
1000V, Measurement Category III, Pollution Degree 2.

**EMC Standard EN 61326-2-2:2006**

### MAXIMUM SAFE VOLTAGES

1000V AC RMS or DC  
30V maximum between output and earth

All accuracies stated at 23°C ± 1°C (73.4°F ± 1.8°F)

### DEGREE OF PROTECTION

IP50 PROBE	IP40 Integrator
Part No's	MODEL
P-06.600.0	ACP 1000_3/2
P-06.600.1	ACP 1000_3/3
P-06.600.2	ACP 1000_3/4
P-06.600.3	ACP 1003_3/2
P-06.600.4	ACP 1003_3/3
P-06.600.5	ACP 1003_3/4