

## Flexible AC Current probe – MICRO~flex ACP 1000\_3 Series

### Accurate, Rugged, Versatile and Reliable

- 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.

**IP50**

### 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.

### Safety and EMC Conformance

Conformance to European standards for safety and EMC ensures a safe product with high reliability through reduced susceptibility to electromagnetic interference.

### High Accuracy with Superior External Field Rejection

- Connection to most measuring instruments including multimeters, oscilloscopes 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.

ACP 1000\_3\_Microflex Range\_160802\_05

## SPECIFICATIONS

NON-INVASIVE AC CURRENT MEASUREMENT		
MODEL	ACP 1000_3	ACP 1003_3
Current Ranges	10 / 100 / 1000A	
Output Sensitivity	100mV / 10mV / 1mV / A	
Noise (AC <sub>RMS</sub> )	0.1A (10A/100A range), 1A (1000A range)	
Linearity	± 0.2% of reading	
Basic Accuracy	± 1% of reading ± 0.1A (10A and 100A ranges)	
	± 1% of reading ± 1A (1000A range)	
Conductor position sensitivity	± 2.5% of reading	
Frequency Range	20Hz to 10kHz (-2dB)	
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)

Temp. Coefficient: ±0.15% of reading per °C

Storage Temperature: -40°C to 75°C (-40°F to 167°F)  
(Without Battery)

All Accuracies Stated at: 23°C ± 1°C (73.4°F ± 1.8°F)

Ingress Protection: IP50 Probe Only  
IP40 Integrator

### Safety

EN 61010-1, EN 61010-2-032  
1000V Measurement Category III,  
Pollution Degree 2  
30V maximum between output and earth

EN 61326-2-2

### Mechanical Data

Dimensions: (mm) 110(H) x 65(W) x 23(D)  
Cable Length: 2m (Probe to Integrator)  
Probe Cable Diameter: 6mm  
Probe Lengths: 50mm (2"), 70mm (3")  
100mm (4")

### Part / Model Number

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

### 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

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

ACP 1000\_3\_Microflex Range\_160802\_05

GMC-Instrumentation Ltd.

Virage Point Virage Park | Walsall Road | Bridgtown | Cannock | Staffordshire | WS11 0NH | United Kingdom

Telephone +44 (0) 1543 469511

www.gmciuk.com | sales@gmciuk.com