

# **AC/DC Current Probes – CP1- SERIES**

# Accurate, Rugged, Versatile and Reliable

- Two models Multimeter (CP1000) and Oscilloscope (CP1005 / CP2005)
- Measurement of AC / DC and complex current waveforms
- 1000A Range (CP1000) 100A / 1000A Ranges (CP1005)
- 200A / 2000A Ranges (CP2005)
- Excellent Accuracy with high resolution
- Wide Bandwidth with low phase shift
- DC Auto Zero and Auto Power Off
- Compact lightweight design
- Output voltages 1mV/A and 10mV/A (CP1005)



## High Accuracy with Superior External Field Rejection

Advanced magnetic circuit design results in probes accuracy to be little affected by external magnetic fields or off-centre conductor positioning.

#### EN61010-2-032:2012 and EMC Conformance

Safety features including a tactile barrier and special jaw design 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

- Light industrial and residential electrical installation testing
- Battery charging systems
- Analysis of switching waveforms in inverters, switch mode power supplies and industrial controls
- Automotive applications eg., Cranking current measurement on car battery lead, current profiling, all requiring high accuracy and superior resolution.

CP1 SERIES\_141111\_06





### SPECIFICATIONS

NON-INVASIVE CURRENT MEASUREMENT				
MODEL	CP 1000	CP 1005	CP 2005	
Current Range	1000A DC or AC RMS	100 / 1000A DC or AC <sub>RMS</sub>	200 / 2000A DC or AC <sub>RMS</sub>	
Output Sensitivity	1mV/A	10 / 1mV/A	10 / 1mV/A	
Resolution	± 500mA	±100mA / ±500mA	±100mA / ±500mA	
Basic Accuracy	± 1% of reading ± 0.5A	± 1% of rdg ± 0.1A/±0.5A	± 1% of rdg ± 0.1A / ±0.5A	
			$\pm 5\%$ of rdg $\pm 0.5A$ (1.5 – 2kA)	
Conductor position sensitivity	< ± 1% relative to centre reading			
Frequency Range (-3dB)	10kHz	20kHz		
Phase shift (up to 1kHz)	N/A	< 2 degrees		
Load Impedance	> 100 kOhms			
Output connection	Safety 4mm plugs	Safety BNC connector		

#### **ENVIRONMENTAL DATA**

Operating Temperature 0°C to 50°C (32°F to 122°F)

Temp. Coefficient ± 0.15% of reading per °C

-20°C to 85°C

Storage Temperature

(without battery)

#### **SAFETY**

BSEN61010-1: 2010 BSEN61010-2-032: 2012

300V, Measurement Category III, Pollution Degree 2.

#### **MAXIMUM SAFE VOLTAGES**

300V AC RMS or DC between uninsulated conductor and ground

#### **POWER SUPPLY**

Battery type 9v Alkaline: MN1604, PP3

IEC 6LR61 or equivalent

Battery life 50 hours typical

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

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

#### **MECHANICAL DATA**

Dimensions (mm)	200 (H) x 74 (W) x 25 (D)	Part No's	MODEL
Jaw Capacity	32mm Ø	P-12.600.1 P-12.600.2	CP 1000 CP 1005
Weight	320gr.	P-12.690.1	CP 2005

CP 1005 and CP 2005 are also available with 4mm safety plugs P-12.601.3 CP 1005\_4mm

P-12.690.2 CP 2005\_4mm

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

CP1 SERIES\_141111\_06