

## AC/DC Current Probes – CP1- SERIES

### *Accurate, Rugged, Versatile and Reliable*

- *Two models Multimeter (CP1000) and Oscilloscope (CP1005)*
- *Measurement of AC / DC and complex current waveforms*
- *1000A Range (CP1000) 100A / 1000A Ranges (CP1005)*
- *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)*
- *Superior noise rejection for power electronics applications*



### **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.

### **EN61010-2-032:2002 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\_120213\_05

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## SPECIFICATIONS

### NON-INVASIVE CURRENT MEASUREMENT

MODEL	CP1000	CP1005
Current Range	1000A DC or AC <sub>RMS</sub>	100 / 1000A DC or AC <sub>RMS</sub>
Output Sensitivity	1mV/A	10 / 1mV/A
Resolution	± 500mA	±100mA / ±500mA
Basic Accuracy	± 1% of reading ± 0.5A	± 1% of rdg ± 0.1A / ± 0.5A
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
Storage Temperature (without battery)	-20°C to 85°C

#### SAFETY

EN61010-2-032:2002,  
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)
Jaw Capacity	32mm Ø
Weight	320gr.

Part No's	MODEL
P-12.600.1	CP1000
P-12.600.2	CP1005

**CP 1005 is also available with 4mm safety plugs**    P-12.601.3                      CP 1005\_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**

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