

Customised AC/DC Current Probes (External Power)

Accurate, Rugged, Versatile and Reliable

- *Three models 5 A, 50 A and 100 A*
- *AC/DC low current measurement down to mAmps*
- *Externally powered for measurement over time*
- *Excellent accuracy with 1mA resolution*
- *Broad bandwidth and low phase shift for power and harmonics measurement*
- *Superior noise rejection for power electronics applications*
- *Superior external field rejection for automotive applications*
- *Conformance to IEC1010 and EMC standards*



High Accuracy

Advanced patented magnetic circuit design results in 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

- Leakage current measurements in automotive applications
- Process control for 4 – 20mA current loop verification
- Battery charging systems
- Light industrial and residential electrical installation testing
- Analysis of switching waveforms in inverters, switch mode power supplies and industrial controls

SPECIFICATIONS

NON-INVASIVE CURRENT MEASUREMENT

MODEL	CP 5_10	CP 50_10	CP 150_10
Current Range	5A DC or AC _{RMS}	50A DC or AC _{RMS}	150A DC or AC _{PK}
Output Sensitivity	1000mV/A	100mV/A	50mV/A
Frequency Range	DC to 100kHz (-1dB)		
Resolution	±1mA		
Basic Accuracy	±1% of reading ±2mA		
Output connection	2.9m cable unterminated		

ENVIRONMENTAL DATA

Operating Temperature	0°C to 50°C (32°F to 122°F)
Temperature Coefficient	± 0.15% of reading per °C (± 0.1% of reading per °F)
Storage Temperature (without battery)	-20°C to 85°C (-4°F to 185°F)

POWER SUPPLY

External Power	±10.5 to ±16 V
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MECHANICAL DATA

Dimensions (mm)	194 (H) x 74 (W) x 25 (D)
Jaw Capacity	25mm Ø
	Other jaw sizes on request available
Weight	320gr.

SAFETY

EN61010-2-032:2002,
300V, Measurement Category III, Pollution Degree 2.
Output limited to 30V to Earth (Unterminated)

MAXIMUM SAFE VOLTAGES

300V AC RMS or DC between uninsulated conductor and ground

EMC Standard EN 61326-2-2:2006

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

Part No	MODEL
P-12.080.1	CP 5_10
P-12.250.0	CP 50_10
P-12.390.2	CP 150_10

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