

## AC/DC Current Probes – CP3 - SERIES

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

- *Two models Multimeter (CP30) and Oscilloscope (CP35 and CP305)*
- *AC / DC low current measurement down to mAmps*
- *Excellent Accuracy with 1mA resolution (CP30/CP35)*
- *DC Auto Zero and Auto Power Off*
- *Compact lightweight design*
- *Broad bandwidth and low phase shift for power and harmonics measurement*
- *Superior noise rejection for power electronics applications*



### **High Accuracy with 1mA Resolution**

Advanced patented 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
- Leakage current measurements
- Process control for 4 – 20mA current loop verification
- Battery charging systems
- Analysis of switching waveforms in inverters, switch mode power supplies and industrial controls
- Automotive applications eg., Leakage current measurement on car battery lead, detection of ECU sleep mode and current profiling, all requiring high accuracy and superior resolution.

CP3 SERIES\_090923\_05

## SPECIFICATIONS

### NON-INVASIVE AC / DC CURRENT MEASUREMENT

MODEL	CP 30	CP 35	CP 305
Current Range	30A	30A	30 / 300A (RMS)
Output Sensitivity	100mV/A	100mV/A	10 / 1mV/A
Frequency Range	DC to 20kHz (-3dB)	DC to 100kHz (-0.5dB)	DC to 20kHz (-3dB)
Resolution	± 1mA	± 1mA	± 50 / ± 100mA
Basic Accuracy	± 1% of reading ± 2mA		± 1% of reading ± 50 / ± 100mA
Conductor position sensitivity	< ± 1% relative to centre reading		
Phase shift (up to 1kHz)	< 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	± 0.01% of reading per °C ± 0.1% of reading per °C (CP305)
Storage Temperature (without battery)	-20°C to 85°C

### POWER SUPPLY

Battery type	9v Alkaline: MN1604, PP3 IEC 6LR61 or equivalent
Battery life	30 hours typical

### MECHANICAL DATA

Dimensions (mm)	194 (H) x 74 (W) x 25 (D)
Jaw Capacity	25mm ∅
Weight	320 g.

### 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

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

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

Part No's	MODEL
P-12.200.1	CP30
P-12.200.2	CP35
P-12.460.0	CP305

**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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**GMC-I PROSyS Ltd.**

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