

## AC/DC Clamp-Meters CP-10 SERIES for the Automotive Professional

*Accurate, Rugged, Versatile and Reliable*

- *Three models: CP41, CP61 and CP1001*
- *Auto ranging*

<i>CP41</i>	<i>4/40A</i>	<i>1/10mA resolution</i>
<i>CP61</i>	<i>40/60A</i>	<i>10mA/100mA resolution</i>
<i>CP1001</i>	<i>400/1000A</i>	<i>100mA/1A resolution</i>
- *Excellent accuracy and linearity*
- *Auto Zero and Auto Power Off*
- *Low battery indicator*
- *Compact lightweight design*
- *Display-Hold for convenience in use*
- *Conformance to EN61010-2:2002 and EMC standards*
- *Analogue output option DC – 10kHz (CP61 only)*



### TYPICAL APPLICATIONS

- Leakage current measurement on car battery lead, detection of ECU sleep mode and current profiling, all requiring high accuracy and superior resolution.
- Battery charging systems
- Analysis of waveforms using the analogue output on CP61
- Low current measurement for fault diagnosis

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## SPECIFICATIONS

### NON-INVASIVE CURRENT MEASUREMENT

MODEL	CP41	CP61	CP1001
Ranges (auto-ranging)	4A, 40A	40A, 60A	400A, 1000A
Measurement method	True RMS	Average reading, RMS responding	True RMS
Resolution	1mA (4A range) 10mA (40A range)	10mA (40A range) 100mA (60A range)	100mA (400A range) 1A (1000A range)
Basic Accuracy	± 1.5% of reading ± 5 digits		
Maximum measurable load	40A DC or AC peak	60A DC or AC peak	1000A DC and AC peak
Maximum overload	10,000 Amps		

### FREQUENCY RESPONSE

AC + DC	DC and 15Hz - 400Hz
AC	15Hz – 400Hz
<b>CP61</b>	
DC	DC
AC	15Hz – 1kHz

### DISPLAY

Size and type	4000-count LCD 10mm characters
Status indication	Low Battery, Polarity
Refresh rate	3 times per second

### ANALOGUE OUTPUT

**CP61 only** - 100mV/A, DC – 10kHz  
Single range ± 60A for waveform analysis

### POWER SUPPLY

Battery type	9V Alkaline: MN1604, PP3 IEC 6LR61 or equivalent
Battery life	15 hours typ. (CP41) 50 hours (CP61, CP1001)

### MECHANICAL DATA

Dimensions (mm)	
CP41,	194 (H) x 74 (W) x 25 (D)
CP1001	200 (H) x 74 (W) x 25 (D)
CP61	240 (H) x 54 (W) x 25 (D)
Jaw Capacity	
CP41	25mm ∅
CP601	32mm ∅
CP61	12mm ∅

### ENVIRONMENTAL DATA

Operating Temperature	0°C to 50°C (32°F to 122°F)
Temp. Coefficient	± 0.15% of reading per °C ± 0.1% of reading per °F
Storage Temperature (without battery)	-20°C to 60°C (-4°F to 140°F)

### SAFETY

EN61010-2-032:2002, 300V,  
Measurement Category III, Pollution Degree 2.  
CP61 (150V, Measurement Category I,  
Pollution Degree 2.

### MAXIMUM SAFE VOLTAGES

300V AC RMS or DC between uninsulated conductor and ground

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

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