



# Advanced measurements by using the CMP-1006 Digital Clamp Meter

#### **Measurement functions**

- INRUSH function for measuring current drawn by an electrical device when first turned on
- AC and DC current measurement up to 1000 A
- True RMS AC voltage and current measurement for accurate and reliable readings of non-sinusoidal signals
- AC and DC voltage measurement up to 600 V
- resistance measurement up to 66 MΩ
- continuity test with acoustic signalling (beeper) for resistance below 40  $\Omega$
- temperature measurement (Fahrenheit and Celsius)
- frequency measurement
- duty cycle measurement
- diode test

#### **Overview**

Sonel CMP-1006 Clamp Meter is designed to work in difficult measuring conditions. A special housing, covered with an elastomer coating, provides protection against drops and mechanical damages. CMP-1006 is the best solution for those who expect the device to be reliable at work in industrial and residential environments.

# **Designed for specialists**

- industrial and commercial electricians
- plant maintenance
- facility maintenance
- electrical contractors
- utility technicians
- HVACR specialists













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## **Special features**

- · large and easy to read LCD display with backlit
- · auto range with manual selection mode
- · HOLD function, allowing for freezing the result on the display
- DCA ZERO function for relative mode in DC current function
- MAX and MIN results hold function
- · large jaw suitable for large conductors and busbars
- automatic power down after 25 minutes



#### Faciliating the measurements -

The AC-16 adapter expands the application of the clamp meter. With the ratio x1 and x10, 230 V AC of voltage and max 16 A of current, the adapter can be applied with any type of clamp meter.

DC current measurement			
	Range	Resolution	Accuracy
	0.0659.9 A	0.1 A	±(2.5% m.v. + 5 digits)
	6601000 A	1 A	± (2.8% m.v. + 8 digits)

AC current measurement (True RMS)			
Range	Resolution	Accuracy	
0.0659.9 A	0.1 A	±(2.5% m.v. + 8 digits) for 4565 Hz	
6601000 A	1 A	±(2.8% m.v. + 8 digits) for 4565 Hz	

DC voltage measurement			
Range Resolution Accuracy			
0.0006.599 V	0.001 V	-	
6.6065.99 V	0.01 V	±(1.5% m.v. + 3 digits)	
66.0600.0 V	0.1 V		

AC voltage measurement (True RMS)			
Range	Resolution	Accuracy	
0.0006.599 V	0.001 V	. (4.00)	
6.6065.99 V	0.01 V	±(1.8% m.v. + 5 digits) for 45 , 65 Hz	
66.0600.0 V	0.1 V	101 4503 112	

Resistance measurement			
Range	Resolution	Accuracy	
0.0659.9 Ω	0.1 Ω	±(1.0% m.v. + 4 digits)	
0.6606.599 kΩ	0.001 kΩ		
6.6065.99 kΩ	0.01 kΩ	±(1.5% m.v. + 2 digits)	
66.0659.9 kΩ	0.1 kΩ		
0.6606.599 ΜΩ	0.001 MΩ	±(2.5% m.v. + 3 digits)	
6.6066.00 MΩ	0.01 ΜΩ	±(3.5% m.v. + 5 digits)	

Frequency measur	ement ———	
Range	Resolution	Accuracy
30.00659.9 Hz	0.1 Hz	
0.6606.599 kHz	0.001 kHz	±(1.2% m.v. + 2 digits)
6.6015.00 kHz	0.01 kHz	
sensitivity:		
30 Hz5 kHz: 10 V	RMS min	
5 kHz15 kHz: 40	V RMS min. for 2	2080% duty cycle

Duty cycle measurement				
Range Resolution Accuracy				
10.094.9%	0.1%	unspecified		
• frequency range: 30 Hz15 kHz				

Temperature —		
Range	Resolution	Accuracy *
-20+760°C	1°C	±(3% m.v. + 5°C)
-4+1400°F	1°F	±(3% m.v. + 9°F)
* probe accuracy no	t included	

## **Technical specification**

power supply of the meter	9 V battery, type 6LR61
display	6600 readings, backlit LCD
continuity test	threshold 40 $\Omega$ , measurement current <0.5 mA
diode test	typical measurement current 0.3 mA typical voltage of open circuit <3 V DC
indication of low battery charge	'BAT' symbol is displayed
indication of range overflow	'OL' symbol is displayed
frequency of measurements	2 readings per second, nominal
INRUSH	integration time 100 ms
temperature sensor	K-type temperature probe
interior clamp diameter	36 mm x 52 mm
input impedance	10 MΩ (V DC and V AC)
AC bandwidth	50400 Hz (A AC and V AC)
auto-off timeout	25 minutes
dimensions	229 mm x 80 mm x 49 mm
weight	303 g
compliance with standards	EN 61010-1, EN 61010-2-032

## Standard accessories



Test lead with probe for CMM/CMP (set)

WAPRZCMP1



Temperature measurement

type K probe WASONTEMK

**adapter** WAADATEMK



Standard carrying case



6LR61 9 V battery

## Nominal operating conditions

operating temperature range	540°C
operating humidity	max. 80% up to 31°C
operating numbers	decreasing linearly to 50% at 40°C
storage temperature	-20+60°C at humidity <80%
operating altitude	max. 2.000 m



## Optional accessories



AC-16 line splitter (faciliates current measurements)

WAADAAC16



M5 carrying case

WAFUTM5



Temperature measurement

probe (K-type, bayonet) WASONTEMP

probe (K-type, metal) WASONTEMK2



Set of test leads

CAT IV, S WAPRZCMM1

CAT IV, M WAPRZCMM2



Crocodile clip mini, 1 kV 10 A (set)

WAKROKPL10MINI

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