

Professional measurements by using the CMP-2000 Clamp Meter

Product features

- INRUSH function for measuring current drawn by an electrical device when first turned on
- True RMS AC voltage and current measurement for accurate and reliable readings of non-sinusoidal signals
- AC current measurement (TRUE RMS) up to 1500 A
- DC current measurement up to 2000 A
- AC voltage measurement (TRUE RMS) up to 750 V
- DC voltage measurement up to 1000 V
- resistance measurement up to 66 MΩ
- continuity test with acoustic signalling (beeper) for resistance below 30 Ω
- capacitance measurement up to 6,6 mF
- temperature measurement (Fahrenheit and Celsius)
- frequency measurement
- duty cycle measurement
- diode test



INRUSH
CURRENT



CAT IV

600 V

CAT III

1000 V

IP20

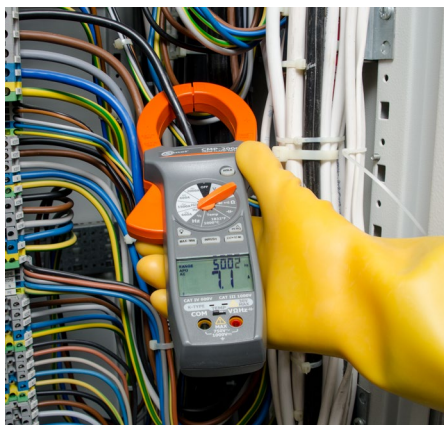
Overview

The Sonel CMP-2000 Clamp Meter is designed to work in high current rating up to 2000 A.

A special INRUSH function allows to measure the maximal instantaneous input current drawn by an electrical device when first turned on.

Measurements of large-diameter cables will not be a problem thanks to the 2¼" jaws. CMP-2000 is the best solution for professional electricians.





Special features

- double LCD to display more than one value at the same time
- safe, insulated measurement clamp
- automatic selection of measuring ranges
- HOLD function, allowing for freezing the result on the display
- backlit LCD
- Delta ZERO function, relative measurement mode for direct current - capability of zeroing the instrument at any time and returning to measurement in absolute mode
- holding of minimum and maximum values
- indication of range overflow
- automatic power down after 30 minutes

DC current measurement

Range	Resolution	Accuracy
0.0...659.9 A	0.1 A	$\pm(2.0\% \text{ m.v.} + 5 \text{ digits})$
660...2000 A	1 A	$\pm(3.0\% \text{ m.v.} + 5 \text{ digits})$ for 660...1000 A $\pm(5.0\% \text{ m.v.} + 5 \text{ digits})$ for 1000...2000 A

AC current measurement (TRUE RMS)

Range	Resolution	Accuracy
0.0...659.9 A	0.1 A	$\pm(2.0\% \text{ m.v.} + 10 \text{ digits})$ for 50...60 Hz $\pm(3.0\% \text{ m.v.} + 10 \text{ digits})$ for 61...400 Hz
660...1500 A	1 A	$\pm(2.5\% \text{ m.v.} + 10 \text{ digits})$ for 50...60 Hz and 660...1000 A $\pm(3.5\% \text{ m.v.} + 10 \text{ digits})$ for 61...400 Hz and 660...1000 A $\pm(5.0\% \text{ m.v.} + 10 \text{ digits})$ for 50...400 Hz and 1000...1500 A

DC voltage measurement

Range	Resolution	Accuracy
0.000...6.599 V	0.001 V	$\pm(0.5\% \text{ m.v.} + 2 \text{ digits})$
6.60...65.99 V	0.01 V	
66.0...659.9 V	0.1 V	
660...1000 V	1 V	

AC voltage measurement

Range	Resolution	Accuracy
0.000...6.599 V	0.001 V	$\pm(1.5\% \text{ m.v.} + 8 \text{ digits})$ for 50...500 Hz
6.60...65.99 V	0.01 V	
66.0...659.9 V	0.1 V	
660...750 V	1 V	

Resistance measurement

Range	Resolution	Accuracy
0.0...659.9 Ω	0.1 Ω	$\pm(1.0\% \text{ m.v.} + 5 \text{ digits})$
0.660...6.599 k Ω	0.001 k Ω	
6.60...65.99 k Ω	0.01 k Ω	
66.0...659.9 k Ω	0.1 k Ω	
0.660...6.599 M Ω	0.001 M Ω	$\pm(2.0\% \text{ m.v.} + 5 \text{ digits})$
6.60...66.00 M Ω	0.01 M Ω	$\pm(3.5\% \text{ m.v.} + 5 \text{ digits})$

Capacitance measurement

Range	Resolution	Accuracy
0.0...6.599 nF	0.001 nF	$\pm(3.0\% \text{ m.v.} + 30 \text{ digits})$
6.60...65.99 nF	0.01 nF	$\pm(3.0\% \text{ m.v.} + 10 \text{ digits})$
66.0...659.9 nF	0.1 nF	$\pm(3.0\% \text{ m.v.} + 30 \text{ digits})$
6.660...6.599 μ F	0.001 μ F	$\pm(3.0\% \text{ m.v.} + 10 \text{ digits})$
6.60...65.99 μ F	0.01 μ F	
66.0...659.9 μ F	0.1 μ F	
0.660...6.599 mF	0.001 mF	$\pm(5\% \text{ m.v.} + 10 \text{ digits})$

Duty cycle measurement

Range	Resolution	Pulse width	Accuracy
5...95%	0.1%	>10 μ s	$\pm(3.0\% \text{ m.v.} + 30 \text{ digits})$

• frequency range: 5%...95% (40 Hz...20 kHz)

Frequency measurement

Range	Resolution	Accuracy
10.00...65.99 Hz	0.01 Hz	$\pm(0.1\% \text{ m.v.} + 5 \text{ digits})$
66.0...659.9 Hz	0.1 Hz	
0.660...6.599 kHz	0.001 kHz	
6.60...65.99 kHz	0.01 kHz	
66.0...659.9 kHz	0.1 kHz	
0.660...1.000 MHz	0.001 MHz	

Technical specification

power supply of the meter	9 V battery, type 6LR61
display	readout of 6600 readings 66-segment bargraph display backlit LCD
continuity test	threshold 30 Ω
diode test	$I = 0.8 \text{ mA}$
indication of range overflow	'OL' symbol is displayed
input impedance	approx. 10 M Ω
capability of opening clamp	cable $\varnothing 2\frac{1}{4}"$ (57 mm) busbar 2.8" x 0.7" (70 mm x 18 mm)
auto-off timeout	30 minutes
dimensions	11.1" x 4.3" x 2.1" 281 mm x 108 mm x 53 mm
weight	1.2 lbs (570 g)
compliance with standards	EN 61010-1 EN 61010-2-032

Nominal operating conditions

operating temperature range	32...122°F (0...50°C) at humidity <70%
storage temperature	-4...140°F (-20...+60°C) at humidity <80%
operating altitude	max. 7,000 ft (2,000 m)



Standard accessories



Test lead with probe for CMM/CMP (set)

WAPRZCMP1



K-type temperature probe

WASONTEMK



Adapter

WAADATEMK



6LR61 9 V battery

Additional accessories



K-type temperature probe (bayonet)

WASONTEMP



Temperature probe (type K, metal)

WASONTEMK2



M3 carrying case

WAFUTM3