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# CMP-2000

## DIGITAL CLAMP-ON MULTIMETER

- AC current measurement (TRUE RMS) up to 1500 A and DC up to 2000 A.
- Measurement of INRUSH current in start-up phase of electrical device (high frequency of sampling).
- AC voltage measurement (TRUE RMS) up to 750 V and DC up to 1000 V.
- Resistance measurement and continuity test:  
 -continuity test with acoustic signalling (beeper) for resistance below 30 Ω.
- Capacitance measurement.
- Temperature measurement (Fahrenheit or Celsius).
- Frequency measurement.
- Duty cycle measurement.
- Diode test.



### Standard accessories:

- test leads (2 pcs.)
- 9 V battery
- K type temperature probe

- case
- calibration certificate
- user manual

WAFUTLM3



# CMP-2000

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- Measurement of INRUSH current in start-up phase of electrical device (high frequency of sampling).
- AC voltage measurement (TRUE RMS) up to 750 V and DC up to 1000 V.
- Resistance measurement and continuity test:
  - continuity test with acoustic signalling (beeper) for resistance below 30 Ω.
- Capacitance measurement
- Temperature measurement (Fahrenheit or Celsius).
- Frequency measurement.
- Duty cycle measurement.
- Diode test.
- Additionally:
  - safe, insulated measuring clamp,
  - autoranging,
  - „DATA HOLD” function, for holding measured values,
  - backlit LCD,
  - „DC ZERO” mode of measurement for DC current, possibility to zero the display and reading relative actual value less stored „zero” value,
  - „MAX/MIN” function,
  - over range indication,
  - „AUTO-OFF” function after 30min.

## DC current measurement

Range	Resolution	Accuracy
0,0...659,9 A	0,1 A	±(2,0% m.v. + 5 digits)
660...2000 A	1 A	±(3,0% m.v. + 5 digits) for 660...1000 A ±(5,0% m.v. + 5 digits) for 1000...2000 A

## AC current measurement (TRUE RMS)

Range	Resolution	Accuracy
0,0...659,9 A	0,1 A	±(2,0% m.v. + 10 digits) for 50...60 Hz ±(3,0% m.v. + 10 digits) for 61...400 Hz
660...1500 A	1 A	±(2,5% m.v. + 10 digits) for 50...60 Hz and 660...1000 A ±(3,5% m.v. + 10 digits) for 61...400 Hz and 660...1000 A ±(5,0% m.v. + 10 digits) for 50...400 Hz and 1000...1500 A

## DC voltage measurement

Range	Resolution	Accuracy
0,000...6,599 V	0,001 V	±(0,5% m.v. + 2 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 (true RMS)

Range	Resolution	Accuracy
0,000...6,599 V	0,001 V	±(1,5% m.v. + 8 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	±(1,0% m.v. + 5 digits)
0,660...6,599 kΩ	0,001 kΩ	
6,60...65,99 kΩ	0,01 kΩ	
66,0...659,9 kΩ	0,1 kΩ	±(2,0% m.v. + 5 digits)
0,660...6,599 MΩ	0,001 MΩ	
6,60...66,00 MΩ	0,01 MΩ	±(3,5% m.v. + 5 digits)

„m.v.”- measured value

## Capacitance measurement

Range	Resolution	Accuracy
0,0...6,599 nF	0,001 nF	±(3,0% m.v. + 30 digits)
6,60...65,99 nF	0,01 nF	±(3,0% m.v. + 10 digits)
66,0...559,9 nF	0,1 nF	±(3,0% m.v. + 30 digits)
6,600...59,999 μF	0,001 μF	±(3,0% m.v. + 10 digits)
66,00...659,99 μF	0,01 μF	
660...659,999 μF	0,100 μF	
0,660...6,600 mF	0,001 mF	

## Frequency measurement

Range	Resolution	Accuracy
10...65,99 Hz	0,01 Hz	±(0,1% m.v. + 5 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	

## Temperature measurement

Range	Resolution	Accuracy
-20...0 °C	1 °C	±(2,0% m.v. + 3 °C)
0...399 °C		±(1,0% m.v. + 2 °C)
400...1000 °C		±(2,0% m.v. + 3 °C)
-4...31 °F	1 °F	±(2,0% m.v. + 6 °F)
32...749 °F		±(1,0% m.v. + 4 °F)
750...1832 °F		±(2,0% m.v. + 6 °F)

## Duty cycle measurement

Range	Resolution	Accuracy
5...95%	0,1%	±(2,0% m.v. + 10 digits)

- frequency range: 40 Hz...20 kHz.

## Electric security:

- measurement category
- protection class acc. to EN 60529

CAT IV 600 V acc. to EN 61010-1  
IP30

## Other technical data:

- power supply
- display
- continuity test
- diode test
- low battery indication
- over range indication
- temperature sensor
- input impedance
- AC bandwidth
- auto power OFF
- dimensions
- weight
- accordance with following standards

9 V battery type 6LR61  
6600 counts, backlit LCD  
threshold 30 Ω  
test current of 0,8 mA , typical  
open circuit voltage 3,2V DC, typical  
BAT displayed  
‘OL’ displayed  
type K thermocouple  
ca.10 MΩ (V DC i V AC)  
50...500 Hz  
30 minutes  
281 x 108 x 53 mm  
570 g (with battery)  
EN 61010-1  
EN 61010-2-032

## Rated operational conditions:

- able to open the clamp:
- operating temperature
- storage temperature
- operating altitude

∅ 57 mm wire  
70 x 18 mm bus bar  
0...+50 °C  
-20...+60 °C  
max 2000m

## Additional equipment of CMP-2000:

- AC line splitter (AC-16)

WAADAAC16

