

CMP-1006

DIGITAL CLAMP-ON MULTIMETER



Standard accessories:

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

WAPRZCMP1

WASONTEMK

- carrying case
- operating manual

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CMP-1006

- AC/DC current measurement (TRUE RMS) up to 1000A.
- Measurement of INRUSH current in start-up phase of electrical device (high frequency of sampling)
- AC/DC voltage measurement (TRUE RMS) up to 600V.
- Resistance measurement and continuity test:
 - continuity test with acoustic signalling (beeper) for resistance below 40Ω.
- Temperature measurement (Fahrenheit and Celsius units).
- Frequency measurement.
- Duty cycle measurement.
- Diode test.
- Additionally:
 - safe, insulated measuring clamps,
 - autoranging/manual range selection,
 - „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.

Electric security:	
- measurement category	CAT III 600V acc. to EN 61010-1:2004
- protection class acc. to EN 60529	IP40
Other technical data:	
- power supply	9V battery type 6LR61
- display	6600 counts, backlit LCD
- continuity test	threshold 40Ω; test current < 0,5mA
- diode test	test current of 0,3mA, typical open circuit voltage < 3V DC, typical BAT displayed
- low battery indication	BAT displayed
- over range indication	OL displayed
- sampling rate	2 times per second
- INRUSH	integration time 100ms
- temperature sensor	type K thermocouple
- input impedance	10MΩ (V DC and V AC)
- AC bandwidth	50...400Hz (A AC and V AC)
- auto power OFF	approx. 25 min.
- dimensions	229 x 80 x 49 mm
- weight	303 g
- accordance with following standards	EN 61010-1:2004 EN 61010-2-032
- quality standard	ISO 9001

Rated operational conditions:	
- internal clamp diameters	d1=36mm/d2=52mm
- operating temperature	+5...+50°C
- storage temperature	-20...+60°C
- operating humidity	max 80% up to 31°C decreasing linearly to 50% at 40°C
- storage humidity	<80%
- operating altitude	max 2000 m

AC/DC current measurement (TRUE RMS)

Range	Resolution	Accuracy (DC)	Accuracy (AC)
0...659,9A	0,1A	±(2,5% m.v. +5 digits)	±(2,5% m.v. + 8 digits) for f=50...60Hz
660...1000A	1A	±(2,8% m.v. +8 digits)	±(2,8% m.v. + 8 digits) for f=50...60Hz

DC voltage measurement

Range	Resolution	Accuracy
0...6,599V	0,001V	±(1,5% m.v. + 3 digits)
6,60...65,99V	0,01V	
66,0...600,0V	0,1V	

AC voltage measurement (TRUE RMS)

Range	Resolution	Accuracy
0...6,599V	0,001V	±(1,8% m.v. + 5 digits) for f=50...60Hz
6,60...65,99V	0,01V	
66,0...600,0V	0,1V	

Resistance measurement

Range	Resolution	Accuracy
0,0...659,9Ω	0,1Ω	±(1,0% m.v. + 4 digits)
0,660...6,599kΩ	0,001kΩ	±(1,5% m.v. + 2 digits)
6,60...65,99kΩ	0,01kΩ	
66,0...659,9kΩ	0,1kΩ	±(2,5% m.v. + 3 digits)
0,660...6,599MΩ	0,001MΩ	
6,60...66,00MΩ	0,01MΩ	±(3,5% m.v. + 5 digits)

Frequency measurement

Range	Resolution	Accuracy
30,0...999,9Hz	0,1Hz	±(1,2% m.v. + 2 digits) sensitivity: 30...5kHz:10Vrms min. 5kHz...15kHz:40Vrms min. for 20%...80% duty cycle
1,000...9,999kHz	0,001kHz	
10,00...15,00kHz	0,01kHz	

Temperature measurement

Range	Resolution	Accuracy
-20...760°C	1°C	±(3,0% m.v. + 5°C)
-4...1400°F	1°F	±(3,0% m.v. + 9°F)

Duty cycle measurement

Range	Resolution	Accuracy
10,0...94,9%	0,1%	±(1,2% m.v. + 2 digits)

- pulse width: 100µs...100ms,
- frequency range: 30Hz...5kHz,
- sensitivity: 30Hz...5kHz: 10Vrms,
5kHz...15kHz: 40Vrms.

„m.v.“- measured value