



CMP-1006

Indeks: WMXXCMP1006

Digital Clamp-on multimeter

CAT IV
300V

CAT III
600V

IP 40

Description

(TRUE RMS) up to 1000 A.

Measurement of INRUSH current in start-up phase of electrical device (high frequency of sampling)

AC/DC voltage measurement (TRUE RMS) up to 600 V.

Resistance measurement and continuity test:

- continuity test with acoustic signalling (beeper) for resistance below 40.

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.

Technical specification

Electric security:

- measurement category: CAT III 600 V acc. to EN 61010-1:2004
- protection class acc. to EN 60529: IP40

Other technical data:

- power supply: 9 V battery type 6LR61
- display: 6,600 counts, backlit LCD
- continuity test: threshold 40 Ω; test current < 0.5 mA
- diode test: test current of 0.3 mA, typical open circuit voltage < 3 V DC, typical
- low battery indication: BAT displayed
- over range indication: OL displayed
- sampling rate: 2 times per second
- INRUSH: integration time 100 ms
- temperature sensor: type K thermocouple
- input impedance: 10 MΩ (V DC and V AC)
- AC bandwidth: 50 to 400 Hz (A AC and V AC)
- auto power OFF: approx. 25 min
- dimensions: 9" x 3.1" x 2" / 229 x 80 x 49 mm
- weight: 0.67 lbs / 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 = 1.4" / 36 mm / d2 = 2" / 52 mm
- operating temperature: 41°F to 104°F / +5 to +40°C
- storage temperature: -4°F to 140°F / -20 to +60°C
- operating humidity: max 80% up to 88°F (31°C) decreasing linearly to 50% at 104°F (40°C)
- storage humidity: <80%
- operating altitude: max 6562 ft / 2000 m

AC/DC current measurement (TRUE RMS)

Range	Resolution	Accuracy (DC)	Accuracy (AC)
0 to 659.9 A	0.1 A	±(2.5% m.v. +5 dgt)	±(2.5% m.v. + 8 dgt) for f=50 to 60 Hz
660 to 1,000 A	1 A	±(2.8% m.v. +8 dgt)	±(2.8% m.v. + 8 dgt) for f=50 to 60 Hz

DC voltage measurement

Range	Resolution	Accuracy
0 to 6.599 V	0.001 V	±(1.5% m.v. + 3 dgt)
6.60 to 65.99 V	0.01 V	
66.0 to 600.0 V	0.1 V	

AC voltage measurement (TRUE RMS)

Range	Resolution	Accuracy
0 to 6.599 V	0.001 V	±(1.8% m.v. + 5 dgt) for f=50 to 60 Hz
6.60 to 65.99 V	0.01 V	
66.0 to 600.0 V	0.1 V	

Resistance measurement

Range	Resolution	Accuracy

0.0 to 659.9 Ω	0.1 Ω	±(1.0% m.v. + 4 dgt)
0.660 to 6.599 kΩ	0.001 kΩ	±(1.5% m.v. + 2 dgt)
6.60 to 65.99 kΩ	0.01 kΩ	
66.0 to 659.9 kΩ	0.1 kΩ	
0.660 to 6.599 MΩ	0.001 MΩ	±(2.5% m.v. + 3 dgt)
6.60 to 66.00 MΩ	0.01 MΩ	±(3.5% m.v. + 5 dgt)

Frequency measurement

Range	Resolution	Accuracy
30.0 to 999.9 Hz	0.1 Hz	±(1.2% m.v. + 2 dgt) sensitivity: 30 to 5 kHz: 10 Vrms min. 5 kHz to 15 kHz: 40 Vrms min. for 20% to 80% duty cycle
1.000 to 9.999 kHz	0.001 kHz	
10.00 to 15.00 kHz	0.01 kHz	

Temperature measurement

Range	Resolution	Accuracy
-20 to 760°C	0.1°C	±(3.0% m.v. + 5°C)
-4 to 1400°F	0.1°F	±(3.0% m.v. + 9°F)

Duty cycle measurement

Range	Resolution	Accuracy
10.0 to 94.9%	0.1%	±(1.2% m.v. + 2 dgt)

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

„m.v.” - measured value