



JCMP-400 JCMP-401

DIGITAL CLAMP-ON MULTIMETERS



Standard accessories:

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

WAPRZCMP1
WASONTEMK

- carrying case
- operating manual





JCMP-400 i JCMP-401

- DC current measurement (JCMP-401 only) and AC current.
- AC/DC voltage measurement up to 600V.
- Resistance measurement and continuity test:
 - continuity test with acoustic signalling (beeper) for resistance below 50Ω.
- Temperature measurement (Fahrenheit and Celsius units).
- Frequency measurement.
- Capacitance measurement (JCMP-401 only).
- Diode test.
- Additionally:
 - safe, insulated measuring clamps,
 - double molded housing,
 - autoranging/manual range selection,
 - „DATA HOLD” function, for holding measured values,
 - backlit LCD,
 - „REL” function,
 - over range indication,
 - „AUTO-OFF” function.

Temperature measurement

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

*) probe (K type) accuracy not included

Frequency measurement

| Range | Accuracy |
|----------------|-------------------------|
| 10Hz ... 10kHz | ±(1,5% m.v. + 2 digits) |

• sensitivity: 100V(<50Hz), 50V(50...400Hz); 15V(401Hz...10kHz)

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 4000 counts, backlit LCD
 - continuity test I<0,5mA, sound signal for R<50Ω
 - diode test I=0,3mA, U_b=1,5V DC OL displayed
 - over range indication 2 times per second
 - sampling rate 10MΩ (V DC and V AC) opening 30mm (1,2")
 - input impedance approx. 30 min.
 - clamp size 197 x 70 x 40 mm
 - auto power OFF 183 g
 - dimensions EN 61010-1:2004
 - weight EN 61010-2-032
 - accordance with following standards ISO 9001
 - quality standard

Rated operational conditions:

- operating temperature 0...+40°C
 - storage temperature -20...+60°C
 - operating humidity max 80% up to 31°C
 decreasing linearly to 50% at 40°C
 - operating altitude max 2000 m

AC current measurement

| Range | Resolution | Accuracy CMP-400 | Accuracy CMP-401 |
|---------|------------|--------------------------|-------------------------|
| 4,000 A | 0,001 A | ±(2,5% m.v. + 12 digits) | no range |
| 40,00 A | 0,01 A | ±(2,5% m.v. + 8 digits) | ±(2,5% m.v. + 8 digits) |
| 400,0 A | 0,1 A | ±(2,8% m.v. + 8 digits) | ±(2,8% m.v. + 5 digits) |

• frequency range: 50...60Hz.

DC current measurement (JCMP-401 only)

| Range | Resolution | Accuracy |
|---------|------------|-------------------------|
| 40,00 A | 0,01 A | ±(2,5% m.v. + 5 digits) |
| 400,0 A | 0,1 A | ±(2,8% m.v. + 5 digits) |

AC voltage measurement

| Range | Resolution | Accuracy CMP-400 | Accuracy CMP-401 |
|----------|------------|-------------------------|--------------------------|
| 400,0 mV | 0,1 mV | no range | ±(1,5% m.v. + 30 digits) |
| 4,000 V | 0,001 V | ±(1,8% w.m. + 8 digits) | ±(1,5% m.v. + 5 digits) |
| 40,00 V | 0,01 V | | |
| 400,0 V | 0,1 V | | |
| 600,0 V | 0,1 V | ±(2,5% w.m. + 8 digits) | ±(2% m.v. + 5 digits) |

• frequency range: 50...400Hz.

DC voltage measurement

| Range | Resolution | Accuracy |
|----------|------------|-------------------------|
| 400,0 mV | 0,1 mV | ±(0,8% m.v. + 2 digits) |
| 4,000 V | 0,001 V | ±(1,5% m.v. + 2 digits) |
| 40,00 V | 0,01 V | |
| 400,0 V | 0,1 V | |
| 600,0 V | 0,1 V | ±(2% m.v. + 2 digits) |

Resistance measurement

| Range | Resolution | Accuracy |
|----------|------------|-------------------------|
| 400,0 Ω | 0,1 Ω | ±(1,0% m.v. + 4 digits) |
| 4,000 kΩ | 0,001kΩ | ±(1,5% m.v. + 2 digits) |
| 40,00 kΩ | 0,01 kΩ | |
| 400,0 kΩ | 0,1 kΩ | |
| 4,000 MΩ | 0,001 MΩ | ±(2,5% m.v. + 3 digits) |
| 40,00 MΩ | 0,01 MΩ | ±(3,5% m.v. + 5 digits) |

Capacitance measurement (JCMP-401 only)

| Range | Resolution | Accuracy |
|----------|------------|------------------------|
| 40,00 nF | 0,01 nF | ±(4% m.v. + 20 digits) |
| 400,0 nF | 0,1 nF | ±(3% m.v. + 5 digits) |
| 4,000 μF | 0,001 μF | |
| 40,00 μF | 0,01 μF | |
| 100,0 μF | 0,1 μF | ±(4% m.v. + 10 digits) |

„m.v.”- measured value