

DC 2000A/ AC1500A DIGITAL CLAMP METER CIE-2608C

SPECIFICATIONS

- Display: 6600 counts. 66-segments analog bar-graph.
- Polarity: Automatic, positive implied, negative polarity indication.
- Overrange: (OL) or (-OL) is displayed.
- Zero: Automatic.
- Low battery indication: The "BAT" is displayed when the battery voltage drops below the operating level.
- Auto power off: Approx. 30 minutes.
- Measurement rate: 2.8 times per second, nominal.
- Analog bar-graph: 28 times per second.
- Operating environment: 0°C to 50°C at <70% R.H.
- Storage temperature: -20°C to 60°C, 0 to 80% R.H. with battery removed from meter.
- Accuracy: Stated accuracy at 23°C ±5°C, <75% relative humidity.
- Temperature Coefficient: 0.1 × (specified accuracy) per °C. (0°C to 18°C, 28°C to 50°C).
- Altitude: 6561.7 Feet (2000m).
- Jaw opening capability: 57mm conductor.
- Power: Single standard 9-volt battery, NEDA 1604, JIS 006P, IEC 6F22.
- Battery life: 75 hours typical with carbon-zinc.
150 hours typical with alkaline.
- Dimensions: 281mm (H) × 108mm (W) × 53mm (D).
- Weight: Approx. 570g including battery.
- Accessories: One pair test leads, 9V battery (installed) and Operating Instructions, carrying case.
- Safety: Designed to meet IEC 61010-1 (EN61010-1) and IEC 61010-2-032 (EN61010-2-032), CATIII 1000V, CATIV 600V, class II and pollution degree 2 indoor use comply with CE.

DC VOLTS

Ranges: 660mV, 6.6V, 66V, 660V, 1000V Resolution: 0.1mV
Accuracy: ±(0.5% rdg + 2 dgts)
Input impedance: 660mV: >100MW; 6.6V:10MW; 66V ~ 1000V:
9.1MW
Overload protection: 1000VDC or 750VAC rms

AC VOLTS TRUE RMS (50Hz - 500Hz)

Ranges: 660mV, 6.6V, 66V, 660V, 750V Resolution: 0.1mV
Accuracy: ±(1.5% rdg + 8 dgts) 50 - 100Hz on 660mV range
±(1.5% rdg + 8 dgts)
Peak Hold: ±(3.0% rdg + 200 dgts) on 66V to 750V ranges
Crest factor: ≤ 3
AC coupled true rms specified from 5% to 100% of range

FREQUENCY

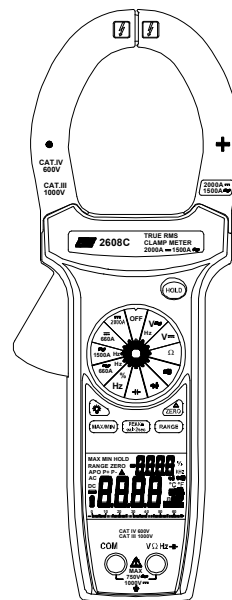
Ranges: 50Hz ~ 1kHz.
Accuracy: ±(0.1% rdg + 5 dgts)
Minimum Input voltage Range: >500dgts.
The readings of frequency measurements will show on the subdisplay.
Input impedance: 660mV: >100MW; 6.6V:10MW; 66V ~ 750V: 9.1MW
Overload protection: 1000 VDC or 750VAC rms

DCCURRENT

Ranges: 660A, 2000A Resolution: 0.1A
Accuracy: ±(2.0% rdg + 5 dgts) 0A ~ 660A
±(3.0% rdg + 5 dgts) 660A ~ 1000A
±(5.0% rdg + 5 dgts) 1000A ~ 2000A
Overload protection: 2000A DC for 60 seconds maximum.

AC CURRENT (50Hz - 400Hz)

Ranges: 660A, 1500A Resolution: 0.1A
Accuracy: ±(2.0% rdg + 10 dgts) 50 ~ 60Hz on 0A ~ 660A
±(3.0% rdg + 10 dgts) 61 ~ 400Hz on 0A ~ 660A
±(2.5% rdg + 10 dgts) 50 ~ 60Hz on 660A ~ 1000A
±(3.5% rdg + 10 dgts) 61 ~ 400Hz on 660A ~ 1000A
±(5.0% rdg + 10 dgts) 50 ~ 400Hz on 1000A ~ 1500A
Peak Hold: ±(3.0% rdg + 200 dgts)
Crest factor: ≤ 3
AC coupled true rms specified from 5% to 100% of range



FREQUENCY

Ranges: 50Hz ~ 1kHz.
Accuracy: ±(0.1% rdg + 5 dgts)
Minimum Input current Range: >500dgts.
The readings of frequency measurements will show on the subdisplay.
Overload protection: 1500A AC

RESISTANCE

Ranges: 660W, 6.6kW, 66kW, 660kW, 6.6MW, 66MW
Resolution: 0.1W
Accuracy: ±(1.0% rdg + 5 dgts) on 660W to 660kW ranges
±(2.0% rdg + 5 dgts) on 6.6MW range
±(3.5% rdg + 5 dgts) on 66MW range
Open circuit volts: -1.1V dc typical, (-3.5Vdc on 660W range)
Overload protection: 600VDC or AC rms

CAPACITANCE

Ranges: 6.6nF, 66nF, 660nF, 6.6mF, 66mF, 660mF, 6.6mF
Resolution: 1PF
Accuracy: ±(3.0% rdg + 30 dgts) on 6.6nF, 660nF ranges
±(3.0% rdg + 10 dgts) on 66nF, 6.6uF, 66uF, 660uF ranges
±(5.0% rdg + 10 dgts) on 6.6mF range
Overload protection: 600VDC or AC rms
When the capacitor to be tested is connected, if "dIS.C" symbol indicate on LCD, it means there is voltage existing in the tested capacitor and need to be discharged before testing.

DIODE TEST

Test current: 0.8mA (approximate)
Accuracy: ±(1.5% rdg + 5 dgts)
Open circuit volts: 3.2Vdc typical
Audible indication: Less than 0.03V
Overload protection: 600VDC or AC rms

CONTINUITY

Ranges: 660W Resolution: 0.1W
Audible indication: Less than 30W Response time: 100ms
Overload protection: 600VDC or AC rms

FREQUENCY

Range: 66Hz, 660Hz, 6.6kHz, 66kHz, 660kHz, 1MHz
Resolution: 0.01Hz
Accuracy: ±(0.1% rdg + 5 dgts)
Sensitivity: 10Hz ~ 1MHz: > 3.5Vrms
Minimum pulse width: > 1us
Duty cycle limits: >30% and < 70%
Overload protection: 600VDC or AC rms

%DUTY CYCLE

Range: 5% to 95% Resolution: 0.1% Pulse width: >10us
Frequency range: 5% to 95% (40Hz to 20kHz)
Accuracy: (5V logic) ±(2% rdg + 10 dgts)
The readings of % DUTY CYCLE measurements will show on the sub-display.
Overload protection: 600VDC or AC rms