

owon®



Clamp Meter + Scope

CMS101

*Versatile Measurements,
Mastering Every Detail*

- ◆ AC/DC clamp meter + Recorder Function + Oscilloscope function 3 in 1.
- ◆ 20,000 count true RMS auto-ranging clamp meter.
- ◆ **Oscilloscope:** Capable of measuring both current and voltage waveforms , Providing more comprehensive analysis.
- ◆ **Recorder Function:** View, compare, analyze, and store measurement data via i-meter (app), efficiently managing test information.
- ◆ **Inrush Current Measurement Function:** Ensures stable and accurate test results amidst complex current fluctuations.
- ◆ Bluetooth communication, support for Android/iOS dual systems.
- ◆ Remote control function meets special environmental testing requirements, ensuring safety and convenience.
- ◆ **Alarm Function:** Customizable thresholds for upper and lower limits, alerting users to ensure safety.
- ◆ Full touch-key operation enables quick switching with one hand.
- ◆ 2.8-inch IPS LCD display with wide viewing range makes the values and waveforms clearer.
- ◆ Dual theme display adapts to different light environments to ensure a clearer display effect.
- ◆ 38mm narrow-edge elongated opening design, suitable confined spaces and large wire diameters, balancing flexibility and applicability.
- ◆ **NCV function:** Standard non-contact AC voltage sensing to quickly locate wires.
- ◆ 18650 lithium battery meeting the needs of extended operations.

+ Technical Specifications

Multimeter	Range	Accuracy
DC Voltage (V)	20.000mV / 200.00mV / 2.0000V / 20.000V / 200.00V / 1000.0V	± (0.1%+5dig)
AC Voltage (V)	200.00mV / 2.0000V / 20.000V / 200.00V / 1000.0V	± (0.6%+10dig)
DC Current (A)	20.00A / 200.0A / 1000A	± (2.0%+5dig)
AC Current (A)	20.00A / 200.0A / 1000A	± (2.5%+5dig)
Inrush Current (A)	20.00A / 200.0A / 1000A	± (10.0%+10dig)
Resistance (R)	200.00Ω / 2.0000kΩ / 20.000kΩ / 200.00kΩ / 2.0000MΩ / 20.000MΩ 100.00MΩ	± (0.3%+5dig)
Capacitance (F)	2.000nF / 20.00nF / 200.0nF / 2.000uF / 20.00uF / 200.0uF / 2.000mF / 20.00mF	± (3.0%+10dig)
Frequency (Hz)	200.00Hz / 2.0000kHz / 20.000kHz / 200.00kHz / 2.0000MHz / 20.000MHz	± (0.1%+5dig)
Duty Cycle	0.1%-99.9% (Typical: Vrms=1 V, f=100Hz)	± (1.2%+3dig)
	0.1%-99.9% (≥1 kHz)	± (2.5%+10dig)

Oscilloscope

Analog Bandwidth	Voltage: 1MHz; Current: 1kHz	Channel	1
Sample Mode	Real-time sample	Real-time Sampling Rate	5.0MSa/s
Input Impedance	10MΩ	Maximum Input Voltage	1000V
Maximum Sample Current	1000A	Scan Speed	2.5us/div ~ 10s/div
Time Base Accuracy	±(0.01%+0.1div)	Sensitivity	30mV/div ~ 500V/div
Displacement Range	±3 grid	Sensitivity Accuracy	±(5%+0.2div)
Trigger Mode	Auto	Trigger Type	Rise, Fall
Measurement	Rms, Period, Freq, Max, Min, PK-PK, Avg	Sampling Depth	4K

Other Function

Bluetooth Communication	You can view measurement data from the multimeter on your phone, control it remotely, display data charts, and store the measurement data in CSV format.				
Automatic Shutdown	When all functions are not used, the meter will automatically shutdown in about 10 minutes. (the default is 10 minutes of automatic shutdown, which can be canceled.)				
Ture RMS	√	Return Zero Measurement	√	Input Protection	√
Data Hold	√	Backlight Function	√	Low Battery Indication	√

Other

Battery	Single section 18650 3.7V	Display	2.8 inch LCD	Dimension (L x W x D)	248mm x 94.5mm x 37.8mm
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Specifications subject to change without prior notice.

+ Accessories The accessories subject to final delivery



Multimeter Lead



Manual



USB Cable



Soft Bag



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