



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 simultaneously, 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.
- ◆ Mobile phone 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, making operation simple and convenient.
- ◆ 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 for 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.

One device, infinite functions.

AC/DC Clamp Meter



3 in 1

Innovative Experience



Recorder



Oscilloscope



1000A AC/DC

True RMS Comprehensive Testing

One-click measurement

Hz

NCV

HOLD

AUTO

APO

V $\approx$

A $\approx$

Ω

$\leftarrow$

$\rightarrow$

o)))

MAX
MIN

True
RMS

%



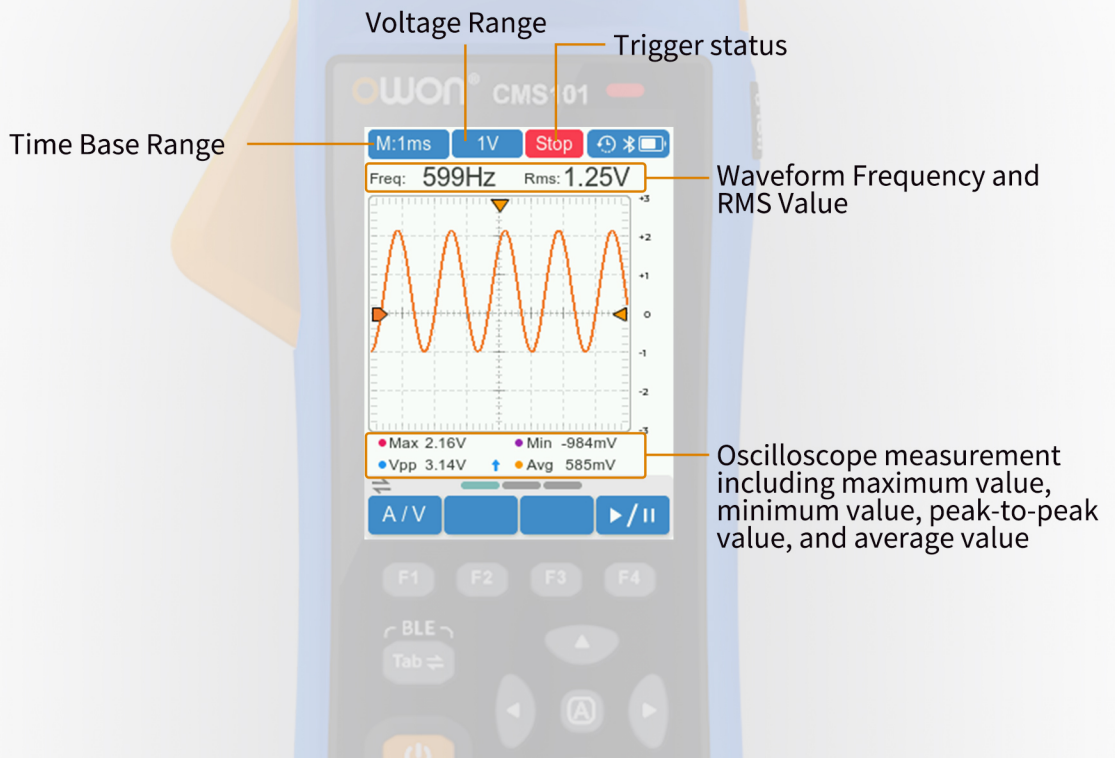
Capable of measuring current and voltage waveforms Provides more comprehensive analysis



● Voltage measurement ●

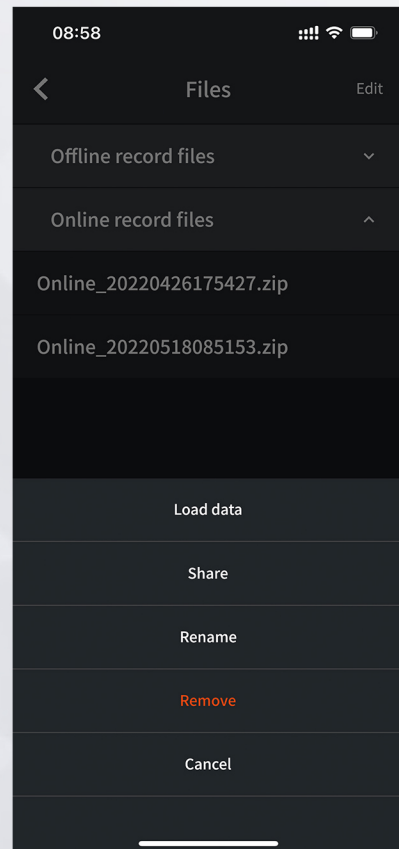
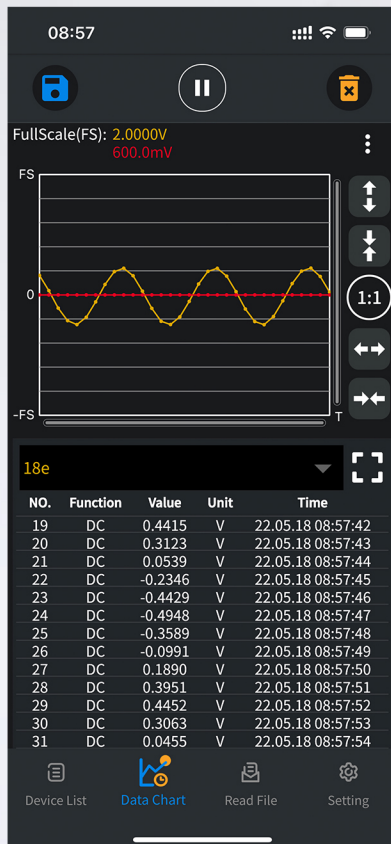


● Current measurement ●



Recorder Function

Users connect to the instrument via Bluetooth, automatically record measurement values, and display them in a graph to visualize trends. The recorded data (CSV format) can be shared with a computer for analysis.



Comparative Analysis of Multiple Instruments

Remote control via smartphone meets special testing requirements, allowing for the connection of various devices for comparative analysis.



Surge Current Measurement

Ensures stable and accurate test results amidst complex current fluctuations.



2.8-Inch IPS LCD

Wide viewing angle for clearer display of values and waveforms.



Dual Theme Display

Adapts to different lighting conditions to ensure clearer display.

**38mm narrow-edge elongated
opening design**



Suitable confined spaces and
large wire diameters measurements



18650 lithium battery power

Long-term use to meet long-term operation needs

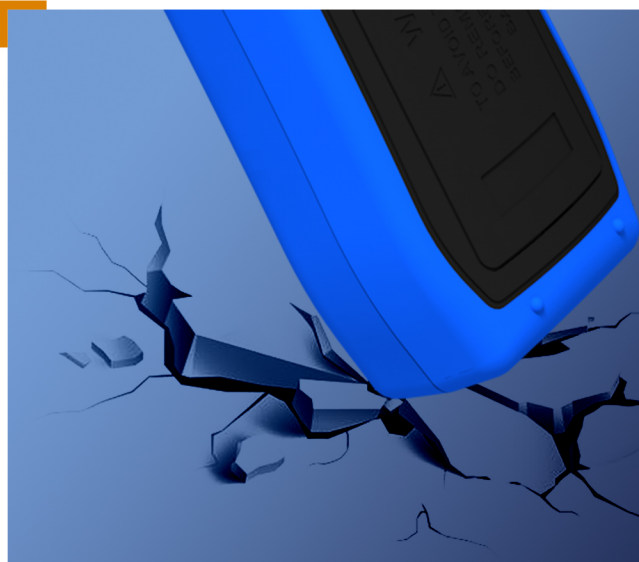
Full membrane silicone

Comfortable to use,
convenient and quick



ABS rubber coating design

Comfortable feel, anti-slip,
and drop-resistant



Product structure display



Dimensions (L x W x H): 248mm x 94.5mm x 37.8mm

Specification

Multimeter Specification	Rang	Accuracy
DC Voltage (V)	200.00mV	± (0.1%+6dig)
	2.0000V/20.000V/200.00V/	± (0.1%+5dig)
	1000.0V	± (0.15%+5dig)
AC Voltage (V)	200.00mV/ 2.0000V/20.000V/200.00V	± (0.6%+10dig)
	1000.0V	± (0.8%+10dig)
DC Current (A)	20.00A	± (2.0%+10dig)
	200.0A / 1000A	± (2.0%+5dig)
AC Current (A)	20.00A	± (3.0%+10dig)
	200.0A / 1000A	± (2.5%+5dig)
Inrush Current (A)	20.00A	± (10.0%+10dig)
	200.0A/1000A	
Resistance (R)	200.0Ω	± (0.8%+10dig)
	2.0000kΩ / 20.000kΩ / 200.00kΩ / 2.0000MΩ	± (0.3%+5dig)
	20.000MΩ	± (0.5%+5dig)
Capacitance (F)	2.00nF/ 20.0nF/ 200nF/2.00uF 20.0uF/ 200uF / 2.00mF/ 20.0mF	± (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 Specification	
Analog bandwidth	1kHz
Sample mode	Real-time sample
Real-time sampling rate	5.0MSa/S
Channel	1
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)
Measurement value	Rms、Period、Freq、Max、Min、PK-PK、Avg
Trigger mode	Auto
Trigger type	Rise、Fall

Other Function			
Bluetooth communication	A smart phone can be used to view the measurement data of the multimeter on the mobile phone side, perform remote control, display data charts, and store the measurement data in CSV format.		
Automatic shutdown	When all functions are not used, the meter will automatically shut down in about 10 minutes.(the default is 10 minutes of automatic shutdown when starting, which can be canceled)		
Display mode	DMM or OSC		
Ture rms	√	Return zero measurement	√
Input protection	√	Digital hold	√
Backlight function	√	Low Battery Indication	√

Other	
Battery	Single section 18650 3.7V
LCD Size	2.8 inch LCD
Dimension	248mm (L) x 94.5mm (W) x 37.8mm (D)

Specifications subject to change without prior notice.