Technical Specifications

Basic conditions: Ambient temperature: 18 ℃~28 ℃; relative humidity: not more than 80%.

Note: During AC voltage/ current and capacitance measurement, the measurement accuracy shall be from 5% to 100% range.

Basic Function		Range	Minimum Resolution	Accuracy	
DC Voltage(V)	V	200.00mV	0.01mV	±(0.7%+10dig)	
		2.0000V	0.0001V	±(0.5%+5dig)	
		20.000V	0.001V		
		200.00V	0.01V		
		600.0V	0.1V		
AC Voltage(V)	V	2.0000V	0.0001V	VRMS frequency range: 40Hz-1000 Hz	±(0.8%+10dig) VFC mode± （4%+3）
		20.000V	0.001V		
		200.00V	0.01V		
		600.0V	0.1V		
DC Current(A)	A	2.0000A	0.001A	±(2%+8dig)	
		20.000A	0.01A	±(2%+3dig)	
		100.00A[1]	0.1A		
AC Current(A)	A	2.0000A	0.001A	IRMS frequency range: 40Hz-1000 Hz	±(3%+10dig) VFC mode± （4%+10）
		20.000A	0.01A		±(2.5%+5dig) VFC mode± （4%+10）
		100.00A[1]	0.1A		
Resistance (Ω)		200.00Ω	0.01Ω	±(0.8%+10dig)	
		2.0000kΩ	0.0001kΩ	±(0.5%+10dig)	
		20.000kΩ	0.001kΩ		
		200.00kΩ	0.01KΩ		
		2.0000MΩ	0.0001MΩ		
		20.000MΩ	0.001MΩ	±(1%+10dig)	
		200.00MΩ	0.01MΩ	±(5.0%+10dig)	
Capacitance(F)		2.000nF	0.001nF	±(4.0%+10dig)	
		20.00nF	0.01nF	±(3.0%+10dig)	

	200.0nF	0.1nF	
	2.000μF	0.001uF	
	20.00μF	0.01uF	
	200.0μF	0.1uF	
	2.000mF	0.001mF	
	20.00mF[2]	0.01mF	
Frequency **(Hz)**[3]	200.00Hz	0.01Hz	±(0.1%+5dig)
	2.0000kHz	0.0001kHz	
	20.000kHz	0.001kHz	
	200.00kHz	0.01kHz	
	2.0000MHz	0.0001MHz	
	20.000MHz	0.001MHz	
Duty Cycle**(%)**[4]	0.1%-99.9% (Typical Value:Vrms=1V,f=1kHz)	0.1%	±(1.2%+3dig)
	0.1%-99.9%(≥1kHz)		±(2.5%+3dig)

[1]When selecting 2A small current measurement function, read the reading after the display value tends to be stable to ensure the accuracy of the value.

[2]In capacitance measurement mode, if the range of 20.00mF is selected, the measurement time should last for more than 30 seconds.

[3]During the frequency measurement, the typical waveform is rectangular wave or sine wave. The measured signal meets the following conditions:

Frequency	Amplitude (rms)
1Hz–20MHz	≥1V

[4]During the duty cycle measurement, the typical waveform is rectangular wave.

Note: During resistance and capacitance measurement, it is necessary to consider the effect of the resistance of the test probe on the measured value.

Characteristics	**Description**
Maximum Reading	19999
Frequency（Hz）	(40-1000)Hz
Numerical Value Conversion Rate	3 times/second

Automatic Range	√(Current excluded)	
Opening Sizes	17mm	
True Virtual Value	√	
VFC	√	
Numeric Data Retention	√	
Zeroing Measurement	√	
LCD Backlight	√	
Automatic Shutdown	√	
Buzzer ON/ OFF	√	
NCV function	√	
Low-Voltage Indication	√	
Input Protection	√	
Input Impedance	≥10MΩ	
Over-Range Warm	√	
Bluetooth Communication	CM2100	Without
	CM2100B	√
Battery	3V(1.5V×2)AAA Alkaline battery	
LCD Sizes	40mm*20mm	
Machine Weight	0.19kg	
Machine Dimensions	181.26mm*60.3mm*32mm	
Working Temperature	0℃～40℃	
Storage Temperature	-10℃～60℃	
Relative Humidity	≤80%	
Altitude	Operating: 3,000 meters Non-operating: 15,000 meters	