



DataSheet

M12

**AUTORANGE TRMS
MULTIMETER**

General technical index

Measurement Category Pollution level:	IEC/EN 61010-1 600V CAT III, 2
Altitude	< 2000m
Temperature and humidity of working environment:	0~40 °C (<80% RH, <10 °C is not considered).
Temperature and humidity of storage environment:	-10~60 °C (<70% RH, remove the battery).
Temperature coefficient:	0.1accuracy / °C.
The maximum allowable voltage between the measuring terminal and the ground	600V DC or AC RMS.
Sampling rate:	about 3 times / second
Automatic shutdown	about 10 minutes.
6000 Display:	the maximum displayed value is 6000
Range exceeding indication:	"OL" is displayed.
Battery low voltage indication:	when the battery voltage is lower than the normal working voltage, the "  " will be displayed on the LCD.
Input polarity indication:	the "-" symbol is automatically display
Battery:	DC 1.5V AAA ×2
Overall dimension:	166mm×78mm×64mm
Weight:	about 268g

Accuracy index

Accuracy: (reading + digit), warranty period of 1 year. Reference conditions: the ambient temperature is 18 °C to 28 °C, and the relative humidity is not greater than 80%.

AC voltage

Range	Resolution	Accuracy
60mV	10uV	± (0.8% reading +3 digits)
600mV	100uV	
6V	1mV	
60V	10mV	
600V	100mV	

Maximum allowable measurement voltage: 600V (RMS) Frequency range:40Hz~1000Hz

DC voltage

Range	Resolution	Accuracy
60mV	10uV	± (0.5% reading +3 digits)
600mV	100uV	
6V	1mV	
60V	10mV	
600V	100mV	

600V maximum allowable measurement voltage: 600

Resistance

Range	Resolution	Accuracy
600Ω	0.1Ω	±(1.2% reading +5 digits)
6kΩ	1Ω	
60kΩ	10Ω	
600kΩ	100Ω	
6MΩ	1kΩ	
60MΩ	10kΩ	±(2.0% reading +5 digits)

Over voltage protection: 600V DC or AC RMS

Diode and connectivity

Range	Description	Remarks
Diode	Display approximate diode forward voltage value	The circuit voltage is about more than 2V
Continuity	The conductive resistance is about less than 30 Ω, and the buzzer sounds continuously.	The circuit voltage is less than 1V

Capacitance

Range	Resolution	Accuracy
10nF	0.01nF	±(3.0% reading +5 digits)
100nF	0.1nF	
1uF	0.001uF	
10uF	0.01uF	
100uF	0.1uF	
1mF	0.001mF	
10mF	0.01mF	±(4.0% reading +5 digits)
100mF	0.1mF	±(5.0% reading +5 digits)

Over voltage protection: 600V DC or AC RMS

Frequency

Range	Resolution	Accuracy
10Hz	0.001Hz	±(1.0% reading +5 digits)
100Hz	0.01Hz	
1kHz	0.1Hz	
10kHz	1Hz	
100kHz	10Hz	
1MHz	100Hz	
10MHz	1kHz	

Minimum input voltage: 200mV (RMS) Over voltage protection: 600V DC or AC RMS

Duty ratio

Range	Resolution	Accuracy
1%~99%	0.1%	±(3.0% reading +5 digits)

Minimum input voltage: 200mV (RMS) Over voltage protection: 600V DC or AC RMS

AC Current

Range	Resolution	Accuracy
600uA	0.1uA	±(1.0% reading +5 digits)
6mA	1uA	±(1.0% reading +3digits)
60mA	10uA	
600mA	100uA	±(1.2% reading +3 digits)
6A	1mA	±(1.5% reading +3 digits)
10A	10mA	

Maximum input current of mA jack: 600mA (RMS)

Maximum input current of 10A jack : 10A (RMS)

Frequency range: 40Hz~1000Hz

DC current

Range	Resolution	Accuracy
600uA	0.1uA	±(0.8% reading +3 digits)
6mA	1uA	
60mA	10uA	
600mA	100uA	±(1.0% reading +3 digits)
6A	1mA	±(1.2% reading +3 digits)
10A	10mA	

Maximum input current of mA jack: 600mA Maximum input current of 10A jack : 10A



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