## **User Manual**



AC Current (A)

0.1A

±(2.5%+30)

600A

40Hz-1kHz

This product is a battery-powered, true-rms, auto ranging digital clamp multimeter with a 6000 counts LCD display and a backlight.  Safety information of the product of the product of the product of the state of the product before measuring voltage higher than 36V DC or 25V AC.  (3) Disconnect the test leads from the stat leads and the insulation of the product before measuring voltage higher than 36V DC or 25V AC.  (3) Disconnect the test leads from the circuit before hanging the mode.  (4) Misuse of mode or range can lead to hazards, be cautious. "OL" will be shown on the display when the input is out of range.  (5) Safety symbols:  (6) Safety symbols:  (7) Earth  (8) Risk of Danger, check  (9) Safety symbols:  (9) Safety symbols:  (1) Bill Hazardous Voltage  (2) Bill Hazardous Voltage  (3) Safety symbols:  (4) Head of Danger, check  (5) Safety symbols:  (6) Safety symbols:  (7) Safety symbols:  (8) Safety symbols:  (9) Safety symbols:  (1) Bill Hazardous Voltage  (1) Bill Hazardous Voltage  (1) Bill Hazardous Voltage  (1) Bill Hazardous Voltage  (2) Bill Hazardous Voltage  (3) Safety symbols:  (4) Hazardous Voltage  (5) Safety symbols:  (6) Safety symbols:  (7) Safety symbols:  (8) Safety symbols:  (9) Safety symbols:  (1) Bill Hazardous Voltage  (1) Bill Hazardous Voltage  (1) Bill Hazardous Voltage  (1) Bill Hazardous Voltage  (2) Bill Hazardous Voltage  (3) Bill Hazardous Voltage  (4) Misuse of mode.  (9) Safety symbols:  (1) Bill Hazardous Voltage  (2) Bill Hazardous Voltage  (3) Bill Hazardous Voltage  (4) Misuse of mode.  (5) Safety symbols:  (6) Safety symbols:  (7) Safety symbols:  (8) Safety symbols:  (9) Safety symbols:  (9) Safety symbols:  (1) Bill Hazardous Voltage  (1) Bill Hazardous Voltage  (1) Bill Hazardous Voltage  (1) Misuse of mode.  (2) Bill Hazardous Voltage  (3) Bill Hazardous Voltage  (4) Misuse of Hazardous Voltage  (6) Misuse of Hazardous Voltage  (8) Safety symbols:  (9)	AC Current	6.000A	600.0V	(V) 60.00V	AC Voltage 6.000V	600.0V	(V) 60.00V	6.000V	Function Range		C. Specifications	A		Δ	(5) Safety symbols:	(4) Misuse of mode of	(3) Disconnect the te	before measuring	(2) Examine the con	information before you use the product	To avoid possible ele	B. Safety Information	This product is a nultimeter with a 6000	
d, true-ms, auto ranging digital damp lay and a backlight.  Lee "indicated in the Specification.  Let lads and the insulation of the product han 36V DC or 25V AC.  To the hazards, be cautious. "OL" will be shown ut of range.  Let lads lad the last lattery will be shown to the hazards, be cautious. "OL" will be shown ut of range.  Let lads lattery lads lattery will be shown to frange.  Let lads lattery latter latt		0.001A	0.1V	0.01V	0.001V	0.1V	0.01V	0.001V	Resolution	Elec		Risk of Danger. the User Manua	Double Insulate	Hazardous Volt	on and migration	or range can le	st leads from t	voltage highe	nection of the	use the produ	ectrical shock,		battery-power counts LCD di	
r ranging digital clamp  ty, please read all safety e Specification. solation of the product ACL. Hous. "O." will be shown  Low Battery N/L Wire Judgement  40Hz-1kHz		±(5%+30)		±(1.0%+3)			±(0.5%+3)		Accuracy	trical Specifica		Check al.	ď	age	0.00	ead to hazards	the circuit bef	er than 36V Do	e test leads a	uct.	fire, or persi		ered, true-rn isplay and a b	
,				-	9000		V009		MAX.Val	ations		4	යා	11-		s, be cautio	ore changi	C or 25V AC	nd the ins	ted in the S	onal injury,		ns, auto r acklight.	
j				40Hz-1kHz					Frequency Response			N/ L Wire Judgement	Low Battery	Earth		us. "OL" will be shown	ng the mode。		ulation of the product	necification	please read all safety		anging digital clamp	
			e												1									

4.000mF 40Hz-1kHz  ±(2.5%45)  ±(2.5%45)  ###################################		V V V V V V V V V V V V V V V V V V V		30~1000 22~1832	Peak Hold Flashlight (Finallight Flashlight) (Finallight)
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4.000mF 40Hz-1kHz  ±(2.5%+5)  ±(2.5%+5)  ±(2.5%+5)  17246+8/2m 17247  17247  17247  11747	n Mechan	Weight Water I Battery I	1°F 1°F 000 counts	[-30~1000]°C [-22~1832]°F eral Specificati	Peak Hold Flashlight Temperature Gene Display (LCD)
4.000mF 40Hz-1kHz 4.05%+5) ±(2.5%+5)		V V V V V V V V V V V V V V V V V V V	1°F	(-30~1000)°C (-22~1832)°F eral Specification	Peak Hold Flashlight Temperature  Temperature  Gene  Display (LCD)
4.000mF 40Hz-1kHz ±(2.5%+5) ±(2.5%+5)		Dimensia	1°C 1°F 1°F	(-30~1000)°C (-22~1832)°F eral Specification	Peak Hold Flashlight Temperature Gene
4.000mF 40Hz-1kHz ±(2.5%+5) ±(2.5%+5)	±(;	<<<<	1°C	[-30~1000)°C [-22~1832]°F	Peak Hold Flashlight Temperature
1+5)	  +  -	<<<<		(-30~1000)°C (-22~1832)°F	Peak Hold Flashlight Temperature
5+5)	  +  -	<<<<		(-30~1000)°C	Peak Hold Flashlight Temperature
		<<<<	1111	200000000	Peak Hold Flashlight
					Peak Hold
					Inrush Current
					Continuity
		٧			Diode
		±(5.0%+5)	0.001mF	4.000mF	
			0.1µF	999.9µF	
			0.01µF	99.99μF	
	4.000	1 (2.0%0.2)	0.001µF	9.999uF	Capacitance
		+ (3 00/. 5)	0.1nF	999.9nF	
			0.01nF	99.99nF	
		±(5.0%+20)	0.001nF	9.999nF	
			0.001MHz	9.999MHz	
			0.1kHz	999.9kHz	
		-10.200.21	0.01KH2	ag gg/Hz	riequency
9 999MH7 40Hz-1kHz	9999	+10 1%+3)	0.001kHz	9 999kHz	Trong on the
			0.1Hz	2H2.999.9Hz	
			0.01Hz	99.99Hz	
			0.001Hz	9.999Hz	
		1 (0.5/075)	0.01MΩ	60.00MΩ	
	0011	10 50/ .31	0.001MΩ	6.000MΩ	Vesistative
60MO 40Hz -1kHz	500		0.1kΩ	600.0kΩ	Donistanco
			0.01kΩ	60.00kΩ	
_		±(1.5%+3)	0.001kΩ	6.000kΩ	
MAX.Value   Frequency Respons	MAX.V	Accuracy	Resolution	Range	Function

ions	Mei	Mechanical Specifications	Suc
ono counts	Dimension	172*64*32mm	32mm
Auto	Weight	172g	5q
71010	Batten/ Type	1 SV AA Ra	Herv * 2
ABS	Battery Type	1.3V AM battery 2	riely 2
imor/corond	Warranty	One year	ear
unio)ac/canin	Envir	Environmental Specifications	tions
<		Temperature	0~40%
<	Operating	Humidity	<75%
<		Temperature	-20~60
<	Storage	Humidity	<809

Me	Mechanical Specifications	ons
Dimension	172*64*32mm	32mm
Weight	172g	54
Battery Type	1.5V AA Battery * 2	ttery * 2
Warranty	One year	ear
Envir	Environmental Specifications	tions
	Temperature	0~40°C
Operating	Humidity	<75%
	Temperature	-20~60°C
Storage	Humidity	<80%

	D. Instruction
ency Response	<ol><li>Front Panel (see the picture on the right)</li></ol>
	1. Jaw
0Hz -1kHz	2. Hasniight 3. Jaw release
	<ol> <li>Hold / Inrush Current / Peak Hold</li> </ol>
	HOLD: To press this button once and you will see
	"HOLD" on the display;
40Hz-1kHz	Inrush current: To press this button twice
	and you will see "INRUSH" on the display;
	Peak hold: To press this button twice after
	connecting test leads to the Terminals and you
	will see "Peak HOLD" on the display;
1011-1111-	5. Power / Select
2117-7110	Power: Press this button for more than 2 second
	to turn it on / off.
	Select: Press this button for switching functions
	after connecting test leads to the Terminals.
	<ol><li>Frequency / NCV: Press this button over 2 second</li></ol>
	into NCV mode and exit from release.
	7. LCD display
	<ol><li>COM: Common terminal for all measurements.</li></ol>
	9. vat : Input terminal for voltage, resistance, cap

\_\*\*\*\* : Input terminal for voltage, resistance, capacitance, temperature, frequency, continuity, diode measured
 Wire to be measured
 Marked position

(2) Measure AC/DC Voltage

1. The minimum voltage of this product is 0.8V. When the measured voltage is higher than 0.8V, the product will display the reading:
than 0.8V, the product will display the reading:
2. Connect the black sea lead to the COM Terminal and connect the red test lead to the Leaf to the 2.4V. Terminal:
3. The DC or AC voltage will be matched automatically:
4. Tough the probess to the correct test points of the circuit to measure the voltage;
5. Read the measured voltage on the display.
Caution:
Caution:
2. Do not measure voltage that exceeds the MAX Value as indicated in the

Specifications;
b. Do not touch high voltage circuit during measurements.

## Turn power switch on Pays the jaw release and center the wire within the clamp jaws (as in the picture). The wire should be in the marked position to keep measurement accuracy. Read the measured current on the display. 3) Measure AC Current Only s. Do not measure current that exceeds the MAX Value as indicated in the Specifications;

Measure one wire at a time because current moving in different directions will cancel each other out.

Connect the black test lead to the COM Terminal and connect the red test lead to the \*\*\*! Terminal;
 The resistance will be matched automatically;

(5) Measure Continuity / Diode

Connect the black test lead to the COM Terminal and connect the red test lead to

7. If the polarity of the test leads is reversed with diode polarity or the diode is broken, the display reading shows "OL". . Read the forward biased voltage value on the display;

Do not input voltage at the Continuity / Diode Mode.

Connect the red probe to the anode side and the black probe to the cathode side of the capacitor to be tested.

Read the measured capacitance value.

1. Connect the black test lead to the COM Terminal and connect the red test lead to the COM Terminal;
2. Press 142; I Terminal;
3. Press 142; I NKD button once for AC current frequency without connecting the test lead to Terminals.
3. Press 142; I NKD button once to enter the Frequency Mode for DC voltage frequency after connecting the test lead to Terminals;
4. Touch the probes to the desired ares points of the circuit;
5. Read the measured frequency value on the display.

Touch the probes to the desired test points of the circuit to measure the resistance;
 Read the measured resistance on the display.

 b. Do not input voltage at the Resistance Mode. . Disconnect circuit power and discharge all capacitors before you test resistance

the \_2%, Terminal;

2. Press SEL/ Power once to toggle to the Continuity/Diode Mode;

3. Touch the process to the desired test points of the circuit;

4. The built-in beeper will beep when the resistance is lower than 500, and the indicator light, will be on.

5. Measure diode: Connect the red probe to the anode side and the black probe to

the cathode side of the diode to be tested;

Discharge all capacitors before you test capacitance.
 Connect the black test lead to the COM Terminal and the red lead to the

\*\*\*\* Terminal.

3. Push Power button twice to enter the Capacitance Mode

(8) Measure NCV
I Press Hz / NCV over 2 seconds to toggle to the NCV Mode;
I Press Hz / NCV over 2 seconds to toggle to the NCV Mode;
I hold the product and move it around, the built-in beeper will beep when the quicker the sensor detects AC voltage nearby. The stronger the voltage is, the quicker the beeper beeps.

By the red probe into the \*\*1, terminal, then use the black probe to both the like ine and Nurral line of the Main supply. You can judge the Line or N-line by the beeps, if you can hear the strong beeps; this is the Line, or it's a N-line.

(9) Measure Temperature

I. Connect the black thermocouple grape to the COM Terminal and connect the red thermocouple grape to the "#1 Terminal".

2 Press SELI, POWER once to toggle to the Temperature Mode after connecting the test lead to Terminals, and the display will show the com temperature, to switch "CYF", press SELI, POWER button once again;

3 Touch the probes to the desired test points;

4 Read the transparence to the desired test points;

4 Read the measured temperature on the display.

a. Do not input voltage at the Temperature Mode.

(10) Measure Inrush current

I Turn power on, and press HOLD twice to toggle to Inrush Current Mode, the display will show "INRUSH";

2. Dush the jaw release and center the wire within the clamp jaws. The wire should be in the marked position to keep measurement accuracy.

3. Turn on the engine or motor equipment, and the product will capture the maximum current within 100ms when motor is starting:

8 and the measured theorems when the discharges the contract of the cont

(11) Peak Hold 4. Read the measured temperature on the display

1. Turn power on, and press HOLD once after connecting the test lead to Terminals to toggle to Peak Hold Mode, the display will show "PEAK HOLD";
2. Touch the probes to the desired test points of the circuit;
3. Read the measured voltage value on the display.

(12) Auto Power Off

If the product automatically powers of after 15 minutes of inactivity;
 The built-in beaper beeps 5 times 1 minute before power off;
 To restart the product, press SELECT button;
 To disable the Auto Power Off function, hold down the Hz / NCV button when turning on the product, you will hear five beeps if you have successfully disabled the function.

Warning:

1. Do NOT exceed the "maximum value" indicated in the Specification;

2. Do NOT input voltage at the Current Mode, the Resistance Mode, the Diode Mode, the Continuity Mode, or the Temperature Mode;

3. Do NOT use the product when the batteries or the battery cover is not placed.

properly;

4. Turn off the product and remove the test leads from the test points before

changing batteries or fuses.

## E. General Maintenance

environments.

(2) Clean the product with damp cloth and mild detergent; do not use abrasives or Beyond replacing batteries and fuses, do not attempt to repair or service the product unless you are qualified to do so and have the relevant calibration, performance test, and service instructions.

[1] Do not operate the product around hot, wet, flammable, explosive or magnetic.

F. Troubleshooting.

If your product do not function as normal, the following steps may help you. If the problem still cannot be solved, please contact your dealer.

Possible Reason

[3] Bernove the input signals before you clean the product ()

(4) Remove the batteries if you will not use the product for a long time to prevent possible battery least.

(5) When "B" is shown on the display, batteries shall be replaced as below:

1. Loosen the screw and remove the battery cover.

2. Replace the used batteries with new batteries of the same type;

3. Place the battery cover back and fasten the screw.

(6) Replace fuses as above steps. Use only fuses of the same type as the original

No current input Display Malfunction

Replace fuse Replace batteries Low battery; replace batteries

Symbol

F. Link to Buetooth App

(1) Turn on the Power;
(2) Short press "Power" and "Hz" at the same time, the screen will show by "symbol;
(3) Spoen e-Bullo mobile to search "Bluetooth DMM" to link;
(4) Please refer to relative explanation of the Bluetooth App.

AND LIMITATION OF LIABILITY LIMITED WARRANTY

Customers enjoy one-year warranty from the date of purchase. This warranty does not cover fuses, disposable batteries, or damage from accident, neglect, misuse, alternation, contamination, or abnormal conditions of operation or

All rights reserved. Specifications are subject to change without notice.