

ET 8133 USER MANUAL



1. Overview


This product is a true RMS 2000 counts display automatic range digital multimeter .

2. Safety instructions




To avoid possible electric shock, fire, and personal injury, please read the safety precautions before using. Please use the product only for the specified purpose, [other applications will weaken the protective device and cause danger.](#)

- [Please check the shell / cracks and insulation near the input port carefully before using the product..](#)
- Do not use this product in the atmosphere of explosive gas and algal gas or in humid environment.
- [If the dc voltage is over than 36V or ac voltage is over than 25V, the voltage will cause serious injury to the body. Users should be attention to avoid touching.](#)
- When the measured parameters exceed the power range of the instrument. The display will show "OL"
- [Please replace the battery when Low battery charge may affect accuracy of test results. Do not use this product when back cover of the battery is not closed properly.](#)

3. Function keys

	<ul style="list-style-type: none">➤ Touch this button for 2 seconds to power on/off the product➤ If there is no measurement operation within 15 minutes, the product will automatically shut down➤ The built-in buzzer will beep five times of one minute before automatically shutting down.
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	➤ Touch this button, the product will hold the current reading on the LCD screen.
	➤ Please hold the button to enter NCV mode and to testing. leave this button to exit the NCV mode. NCV function is inactive when it's in electric current testing.
	➤ Touch this button to light up, and then touch it again to close.

4.Measuring DC/AC Voltage

- Only when the measured voltage is higher than 0.8V, this product will display the reading.
- Insert the red test lead into the right $V\Omega$ jack, the black test lead into the COM jack.
- AC/DC voltage can be identified automatically.
- Contact the correct test point on the circuit with the test lead probe.
- Read the voltage shown on the display screen.

5.Measuring the Resistance

- This product can automatically identify resistance measurement.
- Insert the red test lead into the right $V\Omega$ jack, the black test lead into the COM jack.
- Contact the desired circuit test point with the meter probe.
- Read the resistance values measured on the display.

6.Continuity test

- This product can automatically identify the Continuity test.
- Insert the red test lead into the right $V\Omega$ jack, the black test lead into the COM jack.
- Connect the meter probe to the two points of the circuit to be tested.
- Resistance to be tested $<50 \Omega$,the buzzer will sound and the indication light will light on.

7.Non-contact Voltage detection

- Press NCV button and hold it to enter NCV mode.
- Please place the meter close to the test field, the stronger the electromagnetic field , faster beep will beep and indicator light will flash.

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8.Measure the current

- Insert the meter test lead into the current channel, the product will automatically switch to the current measurement mode, which can automatically identify the AC/DC current.
- Insert the red test lead into the left mA jack and the black test lead into the COM jack.
- Connect the meter probe to the two points of the circuit to be tested.
- Read the current value measured on the display.
- The measurement time should be less than 3 seconds when the current is higher than 200 mA.
- The product will continue to alarm every four seconds remind to avoid the wrong operation of without any measurement when the meter test lead is inserted into the current jack.

9.Technical Parameter

General technical parameter		
Display (LCD)	2000 counts	
range	automatic	
material	ABS/PVC	
Sampling rate	3 times/second	
Diode	Yes	
Capacitance	Yes	
True RMS	Yes	
Data hold	Yes	
Back light	Yes	
The flashlight	Yes	
Auto power off	Yes	
Low battery indication	Yes	
Environmental technical parameter		
Environmental technical index	Temperature	0~40℃
	Humidity	<75%
Storage environment	Temperature	-20~60℃
	Humidity	<80%

Electrical technical parameter				
Function	Range	Resolution	Accuracy	Max
DC(V)	200mV	0.0001V	±(0.5%+3)	600V
	2.000V	0.001V		
	20.00V	0.01V		
	200.0V	0.1V		

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	600V	1V		
AC(V)	2.000V	0.001V	$\pm(1.0\%+3)$	600V
	20.00V	0.01V		
	200.0V	0.1V		
	600V	1V		
Capacitance	20.00nF	0.01nF	$\pm 5\%+3$	200uF
	200.0nF	0.1nF		
	2.000F	10nF		
	200.0F	100nF		
ACA (mA)	20mA/200mA	0.1mA	$\pm(1.0\%+3)$	200mA
ACA(mA)	2A	0.001A	$\pm(1.0\%+3)$	10A
	10A	0.01A	$\pm(1.5\%+3)$	
DCA (mA)	20mA/200mA	0.1mA	$\pm(2.0\%+4)$	200mA
DCA(mA)	20mA/200mA	0.1mA	$\pm(2.0\%+4)$	200mA
	2A	0.001A	$\pm(1.0\%+5)$	
	10A	0.01A	$\pm(2.0\%+3)$	
Resistance	2.000K Ω	0.001K Ω	$\pm(1.5\%+3)$	20M Ω
	20.00K Ω	0.01K Ω	$\pm(0.5\%+3)$	
	200.0K Ω	0.1K Ω	$\pm(0.5\%+3)$	
	2.000M Ω	0.001M Ω	$\pm(1.0\%+3)$	
	20.00M Ω	0.01M Ω	$\pm(1.5\%+3)$	
Diode	Yes			
Continuity	Yes			
NCV	Yes			
Frequency response in ac mode: 40Hz~1KHz				

- Digital multimeter is precision instrument, should pay attention to maintenance.
- Do not connect above 600V DC or 600V AC.
- Do not use the instrument until the back cover is completely covered.
- [Please turn off the power and replace the battery according to the instruction.](#)
- Fuse specification 200mA/250V, self-restoring fuse.
- Do not change the internal circuit at will to avoid damage.

10.Accessories

User's manual 1pc
 Tester meter 1pc
 Test Lead 1pair
 Packing box 1pc