

INSTRUCTION MANUAL MTD80



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Introduction

This product is a battery-powered, auto-ranging, true RMS digital multimeter with a 4000 counts LCD display.

Safety Information

To avoid possible electrical shock, fire, or personal injury, please read all safety information before you use the product. Please use the product only as specified, or the protection supplied by the product can be compromised.

- Examine the condition of the test leads and the casing before you use the product. Look for cracks or missing plastic. Carefully look at the insulation around the terminals & test leads.
- The measurement must be made within the allowable measuring range.
- Do not use the product around explosive gas, vapor, or in damp or wet environments.
- When the voltage to be measured exceeds 36V DC or 25V AC, the operator must be careful to avoid electric shock.
- 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.
- Low level of a battery will result in incorrect readings. Change the batteries when battery level is low. Do not make measurements when the battery door is not properly closed.

Instruction

Buttons

Push this button over 2 seconds to turn on or turn off the product. The product automatically powers off after 15 minutes of inactivity and the 3. built-in beeper beeps 5 times 1 minute 也 before auto power off. To cancel auto power off, push NCV before turning on the product, after 5 beeps to cancel the auto power off successfully. Push once to hold the current reading on the display: Push for more than 2 seconds to turn on the flashlight backlight. And long-push H/☆ again to turn off. Keep pushing this button to enter the NCV testing mode. In this mode, you have to continually push the NVC NCV button. The NCV function cannot be used when test leads are in the current

Measurements

Measure DC/AC Voltage (>0.8mV)

- 1. Only when the voltage is higher than 0.8mV, this product will show the display.
- 2. Put the red lead into the $\bigvee \Omega \cdot \mathfrak{N}$ terminal, put the black lead to the COM terminal.
- 3. The DC or AC voltage will be auto matched.
- 4. Touch the probes to the correct test points of the circuit to measure the voltage.
- 5. Read the measured voltage on the display. Measure Resistance
- 1. Put the red lead into the $\bigvee \Omega \cdot \eta$ terminal, put the black lead to the COM terminal.
- 2. The resistance measure will be auto matched.
- 3. Touch the probes to the desired test points of the circuit to measure the resistance.
- 4. Read the measured resistance on the display.

Test for Continuity

- 1. Put the red lead into the $V \Omega \cdot M$ terminal, put the black lead to the COM terminal
- 2. The continuity measure will be auto matched.
- 3. Touch the probes to the desired test points of the circuit.
- 4. The built-in beeper will beep when the resistance is lower than 50Ω , which indicates a short circuit while the central LED light will light .

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terminal

Test for NCV

- 1. Keep pushing the NCV button to enter the NCV mode.
- 2. Hold the product and move it around, the built-in beeper will beep when the inner sensor detects AC voltage nearby. The stronger the voltage is, the guicker the beeper beeps while the central LED light will twinkle.

Test for Current

- 1. Put the red lead to **A mA** terminal and put the black lead to COM terminal. The DC or AC current will be auto matched.
- 2. Touch the probes to the correct test points of the circuit to measure the current
- Read the measured current on the display 3.
- 4. When you input the current over 2 AMP, the testing time should be less than 3 seconds.
- 5. When the probes are in the current terminal but you have no operations, the meter will beep each 4 seconds to remind that you are in the current mode.

Specifications

Environmental Specifications			
	Temperature	0~40 ℃	
Operating	Humidity	<75%	
Storage	Temperature	-20~60 ℃	
Storage	Humidity	<80%	
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General Specifications			
Display	4000 count	True RMS	\checkmark
Ranging	Auto/Manual	Data Hold	
Material	ABS	Backlight	×
Update Rate	3/s	Flashlight	\checkmark
Low Battery		Auto Power	
Indication	v	Off	v

	Electrical Specifications				
	Function	Range	Resolutio n	Accuracy	Max
	DC VOLTAGE (V)	4. 000V	0.001V	± (0. 5%+3)	600V
		40.00V	0. 01V		
		400. OV	0. 1V		
	(V)	600V			

	AC VOLTAGE (V)	4.000V	0. 001V		
		40. 00V	0.01V	± (1.0%+3)	600V
		400. 0V	0. 1V		
	(•)	600V	1V		
	AC mA	999. 9mA	0. 1mA	± (1.0%+3)	0.0004
	AC A	9. 999A	0.001A		9. 999A
	DC mA	999. 9mA	0. 1mA	± (2.0%+4)	9.999A
	DC A	9.999A	0.001A		9.999A
	Resistance	4. 000k Ω	0. 001kΩ	± (1.5%+3)	
		40. 00k Ω	0.01kΩ	± (0. 5%+3)	40ΜΩ
		400. 0k Ω	0. 1k Ω		
		4.000ΜΩ	0.001ΜΩ		
		40.00MΩ	0.01ΜΩ	土 (1.5%+3)	
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LIMITED WARRANTY AND LIMITATION OF LIABILITY

Customers enjoy one-year warranty from the date of purchase. This warranty does not cover fuses, disposable batteries, damage from misuse, neglect, alteration, contamination, or abnormal conditions of operation or handling, including failures caused by use outside of the product's specifications, or normal wear and tear of mechanical components.



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