

DIGITAL TRUE RMS MULTIMETER DT108

APPLICATION: This is a 3½ Digits True RMS multimeter with Backlight. This instrument can be used to measure AC/DC voltage, AC/DC current, Resistance, Frequency, Non-Contact Voltage detection and other parameters. It is an ideal tool for the Electricians, Engineers, Laptop & Mobiles & Electronics appliances Repairing Centre, Factories, Industries, Laboratories, Students, Household.

FEATURES:

- Display: 3½ Digits with 2000 Counts with Backlight.
- Polarity: Automatic negative polarity indication.
- Zero adjustment: Automatic.
- Over Range Indication "OL",
- Torch & Black light
- Overload Protection
- Fuse Protection
- Wall Mount & Table Type
- Data Hold Function
- Auto/Manual Ranging
- Non-Contact AC Voltage Detector. (NCV)
- Sampling Time 0.4 Seconds
- Auto Power off: 15 mins.
- Operating Temperature & Humidity: 0°C To 40°C, 45%-80%RH
- Storage Temperature & Humidity: -20°C To 60°C, 45%-80%RH
- **CAT II 600V**
- Power supply: 2 X AAA Batteries.
- Display Size: 47 X 30 mm
- Unit Size: 148×69×44mm
- Weight: 180gm Excluding Battery



SPECIFICATION:

DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV*	0.1mV	±(1.0% of rdg + 5 digits)
2V*	0.001V	±(0.8% of rdg + 3 digits)
20V	0.01V	
200V	0.1V	
600V	1V	±(1.0% of rdg + 5 digits)

-Input impedance: 10MΩ

*The readings displayed on screen would be unstable when the circuit is open. The readings would be stable (≤ 1 digit) when loads are connected to the circuit.

-Max input voltage: 600V DC

AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV*	0.1mV	±(1.5% of rdg + 8 digits)
2V*	0.001V	
20V	0.01V	±(1.2% of rdg + 5 digits)
200V	0.1V	
600V	1V	±(1.5% of rdg + 8 digits)

-Input impedance: 10MΩ

* The readings displayed on screen would be unstable when the circuit is open. The readings would be stable (≤ 1 digit) when loads are connected to the circuit.

-True RMS frequency response: 45Hz-1KHz.

-Max input voltage: 600V AC (RMS)

RESISTANCE

RANGE	RESOLUTION	ACCURACY
200Ω	0.1Ω	±(0.8% of reading + 5 digits)
2kΩ	0.001kΩ	
20kΩ	0.01kΩ	
200kΩ	0.1kΩ	
2MΩ	0.001MkΩ	±(1.5% of reading + 5 digits)
20MΩ	0.1MΩ	

Open-circuit voltage: around 0.4 V

Overload protection: 250V DC or AC (RMS)

DC CURRENT

RANGE	RESOLUTION	ACCURACY
200μA	0.1μA	±(1% of reading + 5 digits)
20mA	0.01mA	
200mA	0.1mA	
10A	0.1A	±(2% of reading + 5 digits)

Over load Protection: μA and mA mode: fuse F400mA

A mode: fuse F10A

-When the measuring current is above 5A, the continuous measuring time should not be longer than 10 seconds. After that, you need to stop measuring current for 1 minutes.

AC CURRENT

RANGE	RESOLUTION	ACCURACY
200μA	0.1μA	±(1% of reading + 5 digits)
20mA	0.01mA	
200mA	0.1mA	
10A	0.1A	±(2% of reading + 5 digits)

Over load Protection: μA and mA mode: fuse FF600mA

A mode: fuse F10A

-When the measuring current is above 5A, the continuous measuring time should not be longer than 10 seconds. After that, you need to stop measuring current for 1 minutes.

FREQUENCY

AC Current or AC Voltage mode

Note: This chart refer to the specifications of frequency mode that positioned together with the AC current/voltage modes.

RANGE	RESOLUTION	ACCURACY
60Hz	0.01Hz	±(2% of reading + 5 digits)
600Hz	0.1Hz	
6kHz	0.001kHz	
10kHz	0.01kHz	

-Measuring Range: 10Hz – 10kHz

-Input voltage range: ≥0.2V AC (RMS) (Input voltage increases along with the increase of tested frequency.)

FREQUENCY MODE:

RANGE	RESOLUTION	ACCURACY
100Hz	0.01Hz	±(0.5% of reading + 15 digits)
1kHz	0.1Hz	
10kHz	0.001kHz	
100kHz	0.01kHz	
1MHz	0.1kHz	
10MHz	1kHz	

Over load Protection: 250V DC or AC (RMS)

DIODE

RANGE	RESOLUTION	FUNCTION
	0.001	Show the approx. diode forward voltage.

-Forward DC Current is around 1mA

-Reverse DC Current is around 3V

-Overload Protection: 250V DC or AC (RMS)

CONTINUITY TEST

RANGE	RESOLUTION	DESCRIPTION
		If continuity of tested circuit is lower than 30Ω, the built-in buzzer would beep

-Overload Protection: 250V DC or AC (RMS)

-Open- circuit voltage: 2.1

DUTY CYCLE:

RANGE	RESOLUTION	ACCURACY
10-95%	0.1%	±2.0%

-Input voltage range: ≥1V AC (RMS)

SAFETY INFORMATION:

This Multimeter meets the GB/T 13978-92 standards for digital multimeter general technical requirement, the GB4793.1-1995 Standards for digital testing equipment safety requirement and the standards in a pollution degree 2 environment. Safety rating CAT II 600V. For longer product lifetime and better product performance, please use it with caution and maintain it properly.

ACCESSORIES: Instruction Manual, 2 X AAA Batteries, 1Set Test lead, Temperature Probe.

