

PowerPoint B08DV1T385 Digital Multimeter Voltmeter Tester User Manual

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PowerPoint B08DV1T385 Digital Multimeter Voltmeter Tester



Specifications

- General Specifications: 6000 counts LCD display, true-rms, autoranging
- Mechanical Specifications: Battery-powered, backlight feature
- Environmental Specifications: Not specified
- Electrical Specifications: Diode test, Continuity test, Duty cycle test, Temperature test, Resistance test, Frequency test, Capacitance test, Voltage test, Current test

Product Usage Instructions

• Introduction

This product is a battery-powered digital multimeter with various testing capabilities.

• Safety Information

Ensure to follow all safety precautions mentioned in the user manual before operating the device.

Instrument Overview

- **LCD Display:** Shows various readings and test modes.
- **Function Buttons:** Perform different operations like holding readings, toggling between modes, entering manual range mode, etc.

Maintenance

Regularly clean the product, replace batteries as needed, and replace fuses when necessary following the instructions provided in the manual.

Product FAQs

1. What should I do if the display shows “Low battery”?

If the display indicates low battery, replace the batteries with new ones following the instructions in the manual.

2. How do I toggle between AC/DC and other modes?

To switch between AC/DC and other modes, use the function buttons as described in the manual. Short press to toggle and long press for specific modes.

3. How to enter Frequency/Duty Cycle measuring mode?

To enter Frequency/Duty Cycle measuring mode, ensure the rotary switch is at the correct position and then press the corresponding button as specified in the manual.

User Manual

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 accident, 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.

Introduction

This product is a battery-powered, true-rms, auto-ranging digital multimeter with a 6000 counts LCD display and a backlight.

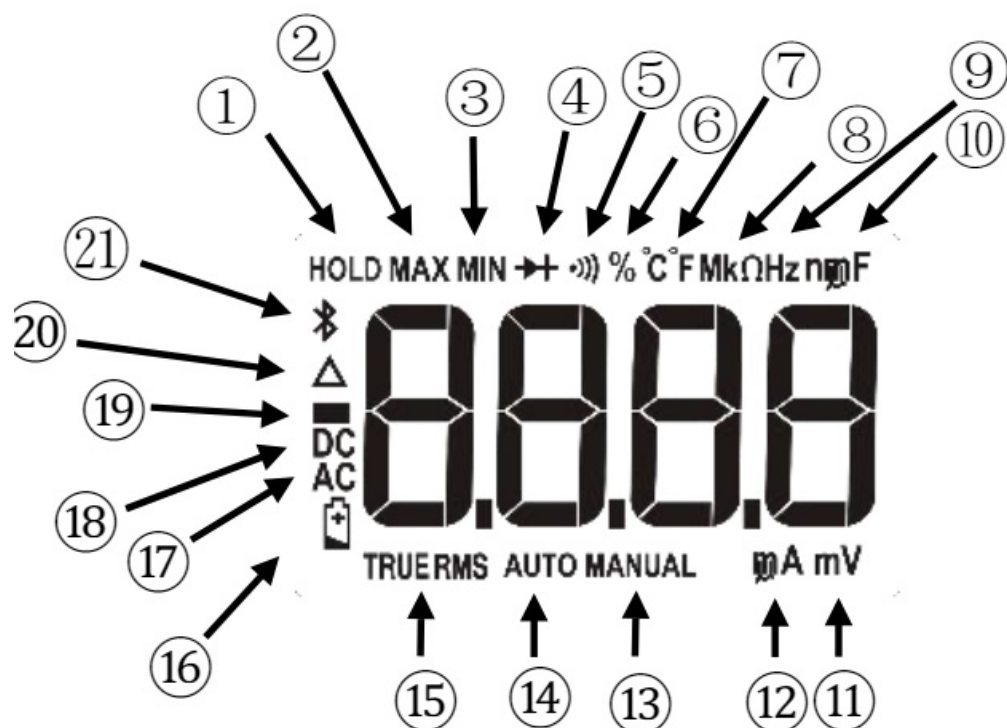
Safety Information

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 case before you use the product. Look for cracks or missing plastic. Carefully look at the insulation around the terminals.
- The measurement must be made with correct input terminals and functions and within the allowable measuring range.
- • Do not use the product around explosive gas, vapor, or in damp or wet environments.
- Keep fingers behind the finger guards on the probes.
- When the product has already been connected to the line being measured, do NOT touch the input terminal that is not in service.
- Disconnect the test leads from the circuit before changing the mode.
- When the voltage to be measured exceeds 36V DC or 25V AC, the operator shall be careful enough to avoid electric shock.
- Misuse of mode or range can lead to hazards, be cautious. “ ” 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 placed.

Instrument Overview

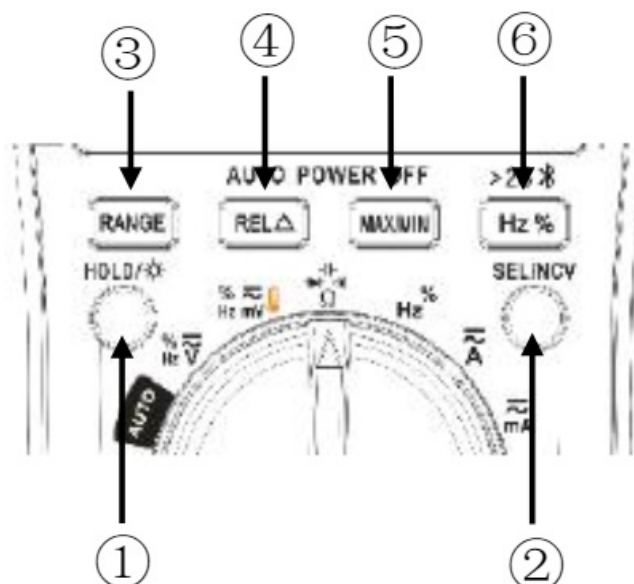
LCD Display



①	HOLD	Display freezes present reading.
②	MAX	Display shows maximum reading.
③	MIN	Display shows minimum reading.
④	→+	Diode test.
⑤)))	Continuity test.
⑥	%	Duty cycle test.
⑦	°F °C	Temperature test. (Fahrenheit or Celsius)
⑧	MkΩ	Resistance test. (Ohm)
⑨	Hz	Frequency test. (Hertz)

⑩	nF	Capacitance test. (Farad)
⑪	mV	Voltage test. (Volt)
⑫	mA	Current test. (Ampere)
⑬	MANUAL	Manual range. The user selects the range.
⑭	AUTO	Auto range. The product selects the range with the best resolution.
⑮	TRUE RMS	The product measures both sinusoidal and nonsinusoidal ac waveforms accurately.
⑯		Low battery. Replace batteries.
⑰	AC	Alternating Current
⑱	DC	Direct Current
⑲		Negative readings.
⑳		Relative mode.
㉑		Bluetooth connection
nkMmm		Measurement units.

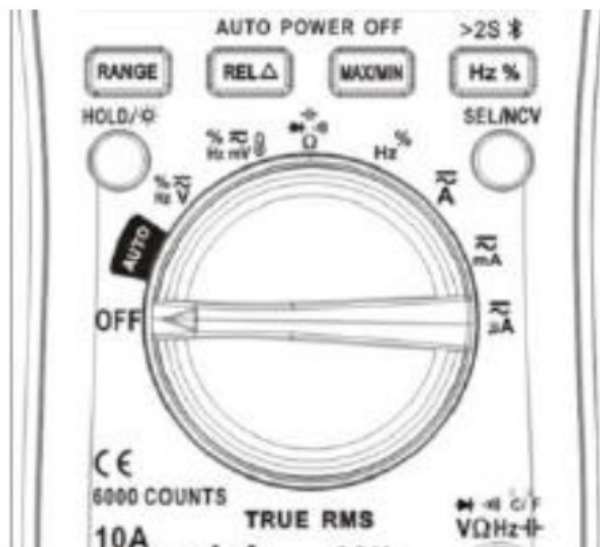
Function Buttons



①	<p>Push once to hold the current reading on the display; push again to continue normal operation. Push for more than 2 seconds to turn on the backlight; long-push again to turn off or the backlight automatically turns off after 2 minutes.</p>
②	<p>Short press to toggle between AC/DC, Voltage(V,mV) / Current(A,mA,μA) / Resistance / Continuity / Diode /Capacitance or °C/°F, Keep pushing this button to enter the NCV testing mode.</p>

③	<p>Push this button once to enter the manual range mode. In manual range mode, each push increases the range; when the highest range is reached, the next push will lead to the lowest range. To exit the manual range mode, turn the rotary switch.</p>
④	<ul style="list-style-type: none"> • Push this button to enter the relative mode. The product will store the present reading as a reference for subsequent readings. The display is zeroed, and the stored reading is subtracted from all subsequent readings. • Push again to exit the relative mode.
⑤	<p>Push to toggle between the MAX and the MIN mode. To exit MAX/MIN mode, push the button for more than 2 seconds.</p>
⑥	<ol style="list-style-type: none"> 1. Push this button when the rotary switch is at the position of , the product will enter Frequency/Duty Cycle (only applies to low frequency with low voltage) measuring mode. 2. Press and hold the button for 2 seconds to turn on / off the Bluetooth function. After the APP is downloaded, you can connect to the phone.








Rotary Switch



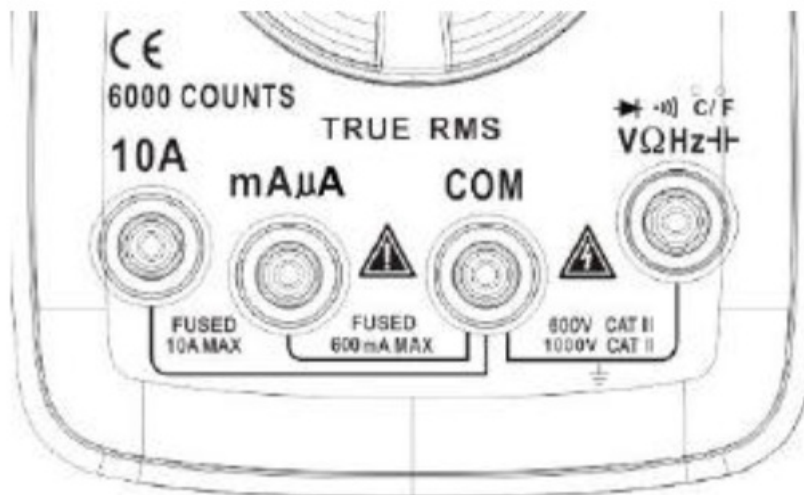
OFF

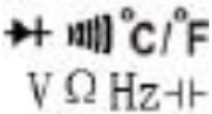
Turn off the product at this position.

- The product automatically powers off after 15 minutes of inactivity.
- The built-in beeper beeps 5 times 1 minute before auto power off.
- To restart the product from auto power off, press the SEL button or turn the rotary switch back to the OFF position and then to a needed position.
- To disable the Auto Power Off function, hold down the SEL button when turning on the product, you will hear five beeps if you have successfully disabled the function.

AUTO	<ul style="list-style-type: none"> • Please rotate dial to AUTO position; Put probes correctly to recognize • Voltage/Resistance/Continuity automatically. Only when the voltage is higher than 0.8V, this data will be shown on the display. • Voltage/Resistance/Continuity can be also measured by switch dial to function position manually
	<ul style="list-style-type: none"> • AC Voltage $\leq 750V$ DC Voltage $\leq 1000V$ • Frequency $\geq 10V$ 1~100KHz Duty Cycle 1%~99%
	<ul style="list-style-type: none"> • AC Current $\leq 600mA$ DC Current $\leq 600mA$ • Frequency $\leq 10V$ 1~10MHz Duty Cycle 1%~99% • Temperature -20~1000°C (-4~1832)°F
	<ul style="list-style-type: none"> • Resistance: $\leq 60M\Omega$ • Continuity: Beeper turns on at $< 50\Omega$ • Diode: Displays above 3V
	<ul style="list-style-type: none"> • Frequency $\leq 10V$ 1~10MHz • Duty Cycle 1%~99%
	<ul style="list-style-type: none"> • DC Current $\leq 10A$ • AC Current $\leq 10A$
	<ul style="list-style-type: none"> • DC Current $\leq 600mA$ • AC Current $\leq 600mA$
	<ul style="list-style-type: none"> • DC Current $\leq 6000\mu A$ • AC Current $\leq 6000\mu A$

Input Terminals

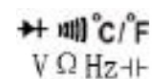


10A	Input terminal for AC/DC current measurements to $\leq 10A$.
mA μA	Input terminal for AC/DC current measurements to $\leq 600mA$.
COM	Common (return) terminal for all measurements.
	Input terminal for the measurements of: <ol style="list-style-type: none"> 1. Diode 2. Continuity 3. Temperature 4. AC/DC voltage 5. Resistance 6. Frequency 7. Capacitance

Measurements Instruction

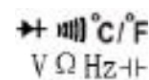
AUTO Mode

1. Auto mode can recognize Voltage/Resistance/Continuity automatically. Only when the voltage is higher than 0.8V, this data will be shown on the display.





1. Connect the black test lead to the COM Terminal and the red lead to the Terminal.
2. Turn the rotary switch to AUTO position
3. Touch the probes to the correct test points of the circuit to measure the voltage.
4. Read the measured voltage on the display.

Measure AC/DC Voltage






1. Connect the black test lead to the COM Terminal and the red lead to the Terminal.



2. Turn the rotary switch to  or to .

3. Press SELECT to toggle between AC/DC.
4. Touch the probes to the correct test points of the circuit to measure the voltage.
5. Read the measured voltage on the display.
 - The measured voltage should not exceed the rated maximum test value, otherwise it may damage the product and endanger personal safety.
 - Do not touch high voltage circuit during measurements.

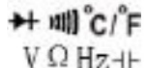

Measure AC/DC Current

1. Connect the black test lead to the COM Terminal and the red lead to the mA, μ A, A Terminal (MAX.600mA) or the 10A Terminal(MAX.10A).
2. Turn the rotary switch to ,  or .
3. Press SELECT to toggle between AC/DC mode
4. Cut off the circuit path to be measured. Then connect the test leads across the circuit and power supply.
5. Read the measured current on the display.
 - The measured current should not exceed the rated maximum test value, otherwise it may damage the product and endanger personal safety.
 - Use the 10A Terminal and the Mode to judge range and choose the right function position when measure an unknown current.
 - It is strictly forbidden to input voltage in this measuring state.

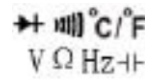
Measure Resistance

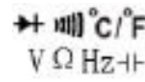

1. Connect the black test lead to the COM Terminal and the test lead to the  Terminal.
2. Turn the rotary switch to , and the display will show “ OL ”.
3. Touch the probes to the desired test points of the circuit to measure the resistance.
4. Read the measured resistance on the display.
 - Disconnect circuit power and discharge all capacitors before you test resistance.
 - Do not input voltage at this setting.

Test Continuity

1. Connect the black test lead to the COM Terminal and the red lead to the  Terminal.
2. Turn the rotary switch to , press SELECT to toggle to the Continuity Mode.
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 50 Ω , which indicates a short circuit.
Do not input voltage at this setting.


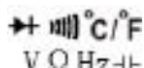
Test Diodes









1. Connect the black test lead to the COM Terminal and the red lead to the  Terminal.
2. Turn the rotary switch to  , press SELECT to toggle to the Diode Mode.
3. Connect the red probe to the anode side and the black probe to the cathode side of the diode being tested.
4. Read the forward bias voltage value on the display.
5. If the polarity of the test leads is reversed with diode polarity or the diode is broken, the display reading shows “ OL ”.
 - Do not input voltage at this setting.
 - Disconnect circuit power and discharge all capacitors before you test diode.

Measure Capacitance

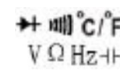








1. Connect the black test lead to the COM Terminal and the red lead to the  Terminal.
2. Turn the rotary switch to  , press SELECT to toggle to the Capacitance Mode.
3. Connect the red probe to the anode side and the black probe to the cathode side of the capacitor being tested.
4. Read the measured capacitance value on the display once the reading is stabilized.
 - Disconnect circuit power and discharge all capacitors before you test capacitance.

Measure Frequency

1. Connect the black test lead to the COM Terminal and the red lead to the Terminal.
2. Turn the rotary switch to  , press SELECT to switch to AC Voltage and press  to toggle to the Frequency Mode (Voltage ≥ 10V, 1~100KHz); or turn the rotary switch to  , press SELECT to switch to AC Voltage and press  to toggle to the Frequency Mode (Voltage ≤ 10V 1~10MHz); or turn the rotary switch to  , press SELECT to switch to AC Voltage and press  to toggle to the Frequency Mode (Voltage ≤ 10V, 1~10MHz).
3. Touch the probes to the desired test points.
4. Read the measured frequency value on the display.

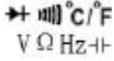

Measure Duty Cycle



1. Connect the black test lead to the COM Terminal and the red lead to  the Terminal.
2. Turn the rotary switch to  or  and press  to toggle to the Duty Cycle Mode; or turn the rotary switch to  , press  to toggle to the Duty Cycle Mode.
3. Touch the probes to the desired test points.

4. Read the measured duty cycle value on the display.

Measure Temperature

1. Connect the black thermocouple probe to the COM Terminal and the red probe  to the Terminal.
2. Turn the rotary switch to  HzmV, press SELECT twice to toggle to the Temperature Mode and the display will show the room temperature, to toggle between °C/°F, press SELECT button.
3. Touch the probes to the desired test points.
4. Read the measured temperature on the display.
Do not input voltage at this setting.


Maintenance

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.

Clean the Product

- Wipe the product with a damp cloth and mild detergent. Do not use abrasives or solvents. Dirt or moisture in the terminals can affect readings.
- Remove the input signals before you clean the product.

Replace the Batteries

When  is shown on the display, batteries shall be replaced as below:

1. Remove the test leads and turn off the product before replacing the batteries.
2. Loosen the screw on the battery door and remove the battery door.
3. Replace the used batteries with new batteries of the same type.
4. Place the battery door back and fasten the screw.

Replace the Fuses

When a fuse is blown or do not work properly, it shall be replaced as below:

1. Remove the test leads and turn off the product before replacing the fuse.
2. Loosen the four screws on the back cover and the screw on the battery door, then remove the battery door and the back cover.
3. Replace the fuse with a new fuse of the same type.
4. Place the back cover and the battery door back and fasten the screws.

Specifications

General Specifications	
Display LCD	6000 counts
Ranging	Auto/Manual
Material	ABS
Update Rate	3 times/ second
True RMS	√
Data Hold	√
Backlight	√
Low Battery Indication	√
Auto Power Off	√

Mechanical Specifications	
Dimension	161*81*39mm
Weight	330g without batteries
Battery Type	1.5V AA Battery * 2
Warranty	One year

Environmental Specifications		
Operating	Temperature	0~40℃
	Humidity	75%
Storage	Temperature	-20~60℃
	Humidity	80%

Electrical Specifications

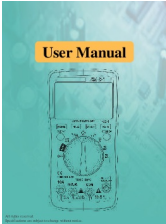
Function	Range	Resolution	Accuracy
DC Voltage V	6.000V	0.001V	$\pm(0.5\%+3)$
	60.00V	0.01V	
	600.0V	0.1V	
	1000V	1V	
DC Voltage mV	60.00mV	0.01mV	
	600.0mV	0.1mV	
AC Voltage V	6.000V	0.001V	$\pm(1.0\%+3)$
	60.00V	0.01V	
	600.0V	0.1V	
	750V	1V	
AC Voltage mV	60.00mV	0.01mV	
	600.0mV	0.1mV	
DC Current A	6.000A	0.001A	$\pm(1.2\%+3)$
	10.00A	0.01A	

Function	Range	Resolution	Accuracy
DC Current mA	60.00mA	0.01mA	$\pm(1.2\%+3)$
	600.0mA	0.1mA	
DC Current μ A	600.0 μ A	0.1 μ A	
	6000 μ A	1 μ A	
AC Current A	6.000A	0.001A	$\pm(1.5\%+3)$
	10.00A	0.01A	
AC Current mA	60.00mA	0.01mA	
	600.0mA	0.1mA	
AC Current μ A	600.0 μ A	0.1 μ A	
	6000 μ A	1 μ A	
Resistance	600.0 Ω	0.1 Ω	$\pm(0.5\%+3)$
	6.000k Ω	0.001k Ω	
	60.00k Ω	0.01k Ω	
	600.0k Ω	0.1k Ω	
	6.000M Ω	0.001M Ω	
	60.00M Ω	0.01M Ω	$\pm(1.5\%+3)$

Function	Range	Resolution	Accuracy
Capacitance	9.999nF	0.001nF	$\pm(5.0\%+20)$
	99.99nF	0.01nF	$\pm(2.0\%+5)$
	999.9nF	0.1nF	
	9.999 μ F	0.001 μ F	
	99.99 μ F	0.01 μ F	
	999.9 μ F	0.1 μ F	
	9.999mF	0.001mF	$\pm(5.0\%+5)$
Frequency	99.99Hz	0.01Hz	$\pm(0.1\%+2)$
	999.9Hz	0.1Hz	
	9.999kHz	0.001kHz	
	99.99kHz	0.01kHz	
	999.9kHz	0.1kHz	
	9.999MHz	0.001MHz	
Duty Cycle	1%~99%	0.1%	$\pm(0.1\%+2)$

Function	Range	Resolution	Accuracy
Temperature	(-20~1000)°C	1°C	±(2.5%+5
	(-4~1832)°F	1°F	
Diode	√		
Continuity	√		
Bluetooth	√		

Documents / Resources

	<p>PowerPoint B08DV1T385 Digital Multimeter Voltmeter Tester [pdf] User Manual B08DV1T385 Digital Multimeter Voltmeter Tester, B08DV1T385, Digital Multimeter Voltmeter Tester, Multimeter Voltmeter Tester, Voltmeter Tester, Tester</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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