

## Benchtop Digital Multimeter 51,000 count

Model :DMM-8045

### Features

- 21,000/51,000-count display
- Large-screen dual-display VFD with high brightness
- True RMS AC voltage and current measurements, bandwidth up to 100kHz
- Measurement functions, including DCV/ACV, DCI/ACI,  $\Omega$ , frequency/period, diode, Continuity, dBm,dB, etc.
- Parameters,such as AC+DC, AC+Hz, Readout+d B , Readout+d B m , displayed synchronously
- Measurement speed up to 25 meas/sec
- DCV accuracy up to 0.02%, resolution up to10 $\mu$ V
- Measured value displayed in the form of percentage
- Relative mode (REL) to eliminate residual reading
- Calibration without opening the case
- Limit function (HI/IN/LO) for fast sorting
- Equipped RS232C communication interface providing convenient system communication



The DMM-8045, a 50,000-count digital multimeter, serves as a multifunctional tester for voltage, current, and resistance, offering both high functionality and affordability. This instrument is capable of performing measurements at speeds significantly higher than its competitors in the same class. It showcases exemplary performance with a maximum count of up to 51,000, superb DC voltage accuracy of 0.02%, and cost-effectiveness, making it an excellent choice for various testing needs.

Equipped with a VFD dual-display that boasts high brightness, the DMM-8045 enhances measurement efficiency by synchronously displaying parameters such as AC/DC voltage, current, and frequency, ensuring clear and precise presentation of results. Additionally, the use of SMD technology in its construction helps in reducing both the physical size and density of the device, promoting better handling and operation.

Standard features of the instrument include an RS232C communication interface, with the option to integrate common communication software for extended functionalities such as computer interfacing, data analysis, statistics, and the development of automated test systems. The DMM-8045 is also compatible with SCPI commands, which supports the seamless integration of various communication software solutions, further enhancing its versatility in professional settings.

## Specifications:

Category	Details
Model	DMM-8045 50,000 count Digit Multimeter
Measurement Parameters	DC/AC Voltage, DC/AC Current, Resistance, Frequency, Period, Continuity, Diode
Math Functions	%, dB, dBm, REL
Range	Auto, Manual
Display	VFD, dual display
Reading Mode	Single display: all measurement parameters

	Dual display: ACV+DCV, ACI+DCI, ACV+Hz, ACI+Hz, Readout+dB/dBm, Readout+Max/Min
Trigger Mode	INT/MAN/BUS
Reading Hold	To find the best stable reading for each data block according to given accuracy
Comparator	To judge HI, IN, LO and display, with ALARM at HI/LO (selectable)
Instrument Accessories	TH26036: 1 pair of test lead (red and black)
	3 cord power line (According to different regions)
Options	TH26034: RS232C interface connection cable
	TH12025: RS232C communication software
	TH12024: Accuracy calibration software
Interface	RS232C (only TH1942), supporting SCPI command
General Specifications	Working temperature & humidity: 0°C-40°C, ≤90% RH
Power Supply	Voltage: 198V-242VAC, 99V-121VAC

	Frequency: 47.5Hz-63Hz
	Power consumption: ≤ 10 VA
Physical Dimensions	(W×H×D): 277mm x 115mm x 340mm
Weight	Approx. 2.2 kg

Measurement Type	Range	Max Reading	Resolution	Accuracy	Additional Specs
DC Voltage	200mV/500mV	510.00	10μV	0.02 + 0.016	Input impedance: 10MΩ
	2V/5V	5.1000	100μV	0.02 + 0.008	Input impedance: 11.1MΩ
	20V/50V	51.000	1mV	0.02 + 0.008	Input impedance: 10.1MΩ
	200V/500V	510.00	10mV	0.02 + 0.008	Input impedance: 10MΩ
	1000V	1200.00	100mV	0.02 + 0.008	Input impedance: 10MΩ
DC Current	2mA/5mA	5.1000	0.1μA	0.05 + 0.010	Load voltage/shunt resistance <0.6V/100Ω

	20mA/50mA	51.000	1μA	0.05 + 0.008	Load voltage/shunt resistance <0.06V/1Ω
	200mA/500mA	510.00	10μA	0.05 + 0.008	Load voltage/shunt resistance <0.6V/1Ω
	2A/5A	5.1000	100μA	0.25 + 0.010	Load voltage/shunt resistance <0.1V/10mΩ
	20A	20.000	1mA	0.25 + 0.010	Load voltage/shunt resistance <0.6V/10mΩ
AC Voltage	200mV-750V	-	10μV-100mV	-	-
AC Current	2mA-20A	-	0.1μA-1mA	-	-
Resistance	200Ω/500Ω	510.00	10mΩ	0.10 + 0.010	Test current: 0.5 mA
	2kΩ/5kΩ	5.1000	100mΩ	0.10 + 0.008	Test current: 0.45 mA
	20kΩ/50kΩ	51.000	1Ω	0.10 + 0.008	Test current: 45μA
	200kΩ/500kΩ	510.00	10 Ω	0.10 + 0.008	Test current: 4.5μA
	2MΩ/5MΩ	5.1000	100 Ω	0.15 + 0.008	Test current: 450nA

	20MΩ/50MΩ	51.000	1kΩ	0.30 + 0.010	Test current: 45nA
Frequency	5Hz-1MHz	Varies	0.0001Hz-10Hz	Varies	Sensitivity: 200mV-500mV rms depending on frequency