



DT-9967T DIGITAL PROFESSIONAL T-RMS MULTIMETER

This digital multimeter is the most complete and accurate instrument available in this price range. Confirms to CAT-III 1000V and CAT-IV 600V. It measures T-RMS values of AC Voltage or Current. Along with all the regular features of a multimeter, it provides a 6600 counts display therefore providing greater range with more resolution. The instrument has IP-67 ingress protection therefore making the instrument dust and waterproof. The backlit display provides clear display in dark areas.

It has Non Contact Voltage Detector that shows if the line is live or dead. It has wide capacitance range. It can measure AC/DC Voltage, AC/DC Current, Resistance, Frequency, Capacitance and temperature and can be used for diode and continuity test facility.

FEATURES

- 6600 Counts with analogue Bargraph Backlit LCD
- IP67, Water and Dust Proof
- Complete Overload protection
- Fast Blow Fuse Protection
- Measures AC T-RMS/DC Voltage
- Measures AC T-RMS/DC Current
- Resistance, Capacitance, Frequency, Temperature, Duty Cycle Measurement
- Diode & Continuity Check
- Data Hold, MIN/MAX record
- Relative Measurement
- Double Molded Housing
- 6.5feet Drop proof

Insulation : Class2, Double insulation.

Over voltage category : CATIV 600V, CATIII 1000V

NOTE : These meters meet CAT III and CAT IV IEC 61010 standards. The IEC 61010 safety standard defines four over voltage categories (CAT I to IV) based on the magnitude of danger from transient impulses. CAT III meters are designed to protect against transients in fixed-equipment installations at the distribution level; CAT IV meters are designed to protect against transients from the primary supply level (overhead or underground utility service).

Maximum voltage between any terminal and earth ground : 1000V DC/AC

Surge Protection : 8kV peak IEC 61010

Display : 6600 counts LCD Dual display.

Polarity : Automatic, (-) negative polarity indication.

Over-range : "OL" mark indication.

Low battery indication : A battery "⊕" symbol is displayed when the battery voltage drops below the operating level.

Measurement rate : 2 times per second nominal.

Auto power off : Meter automatically shuts down after approx. 30 minutes of inactivity.

Operating environment : -10°C to 50°C (14 to 122 OF) at < 70 % relative humidity.

Storage temperature : -30°C to 60°C (-4 to 140 OF) at < 80 % relative humidity.

Relative humidity : 90% (0°C to 30°C); 75% (30°C to 40°C); 45% (40°C to 50°C);

For inside use, max height : Operating: 3000m, Storage 10,000m

Pollution degree : 2

Safety : The instrument complies with IEC/EN 61010-1 :2001 and IEC/EN 61010-031 :2002

Power : One 9V battery, NEDA 1604, IEC 6F22.

Dimensions : 182 (H) x 82 (W) x 55 (D) mm

Weight : Approx.: 375g

Accuracy

Accuracy is given at 18°C to 28 °C (65°F to 83°F), less than 70 % RH

SPECIFICATIONS

DC Voltage (Auto-ranging)

Range	Resolution	Accuracy
660.0mV	0.1mV	±1% of rdg ± 3 digits
6.600V	1mV	±1% of rdg ± 3 digits
66.00V	10mV	
660.0V	100mV	
1000V	1V	

Input Impedance: 10MΩ

Maximum Input: 1000V DC or 1000V AC RMS.

AC Voltage (T-RMS) (Auto-ranging)

Range	Resolution	Accuracy
660.0mV	0.1mV	±1.2% of rdg ± 20 digits
6.600V	1mV	±1.2% of rdg ± 3 digits
66.00V	10mV	
660.0V	100mV	
1000V	1V	

Input Impedance: 10MΩ.

AC Response: 50 Hz to 400Hz

Maximum Input: 1000V DC or 1000V AC.

DC Current (Auto-ranging)

Range	Resolution	Accuracy
660.0uA	0.1uA	±1.2% of rdg ± 3 digits
6600uA	1uA	
66.00mA	10uA	
660.0mA	100uA	
10mA	10mA	±2.5% of rdg ± 3 digits

Overload Protection: FF800mA / 1000V and
F10A / 1000V Fuse.

AC Current (Auto-ranging)

Range	Resolution	Accuracy
660.0uA	0.1uA	±1.5% of rdg ± 5 digits
6600uA	1uA	
66.00mA	10uA	
660.0mA	100uA	
10mA	10mA	±3.0% of rdg ± 5 digits

Overload Protection: FF800mA / 1000V and
F10A / 1000V Fuse.

All AC Voltage Ranges are specified from 5% of range to 100% of range

AC Response: 50 Hz to 400Hz

Resistance (Ω) (Auto-ranging)

Range	Resolution	Accuracy
660.0 Ω	0.1 Ω	$\pm 1\%$ of rdg ± 3 digits
6.600K Ω	1 Ω	$\pm 1\%$ of rdg ± 3 digits
66.00K Ω	10 Ω	
660.0K Ω	100 Ω	
6.600M Ω	1K Ω	
60.00M Ω	10K Ω	$\pm 1.2\%$ of rdg ± 2 digits

Input Protection: 250V DC or 250V AC RMS.

Capacitance (Auto-ranging)

Range	Resolution	Accuracy
6.600nF	1pF	$\pm 5.0\%$ of rdg ± 7 digits
66.00nF	10pF	
660.0nF	0.1nF	$\pm 3\%$ of rdg ± 5 digits
6.600uF	1nF	
66.00uF	10nF	
660.0uF	0.1uF	$\pm 5.0\%$ of rdg ± 7 digits
6.600mF	1uF	
60.00mf	10uF	Not Specified

Input Protection: 250V DC or 250V AC RMS.

Frequency (Auto-ranging)

Range	Resolution	Accuracy
66.00Hz	0.01Hz	$\pm 1.0\%$ of rdg ± 3 digits
660.0Hz	0.1Hz	
6.600KHz	1Hz	
66.00KHz	10Hz	
660.0KHz	100Hz	
6.600KHz	1KHz	
10.0MKHz	10kHz	$\pm 2\%$ of rdg ± 4 digits

Sensitivity: > 0.5 RMS while ≤ 1 MHz;

Sensitivity: > 3 V RMS while > 1 MHz;

Input Protection: 250V DC or 250V AC RMS.

Duty Cycle (Auto-ranging)

Range	Resolution	Accuracy
1%~98.90%	0.1%	$\pm 1.2\%$ of rdg ± 2 digits

Pulse width: $> 100\mu s < 100$ ms;

Frequency width: 5Hz - 150KHz

Sensitivity: < 0.5 V RMS

Overload Protection : 250V DC or 250V AC RMS.

Temperature (Auto-ranging)

Range	Resolution	Accuracy
-20°C ~ +760°C	1°C	$\pm 3\%$ of rdg ± 5 digits
-4°F ~ +140°F	1°F	$\pm 3\%$ of rdg ± 9 digits

Sensor: Type K Thermocouple

Overload Protection : 250V DC or 250V AC RMS.

Diode Test (Auto-ranging)

Test Current	Resolution	Accuracy
1mA typical / Open MAX.3V	1mV	$\pm 10\%$ of rdg ± 5 digits

Open Circuit Voltage: MAX. 3V DC

Overload Protection : 250V DC or 250V AC RMS.

Audible Continuity:

Audible threshold : Less than 30 Ω Test Current MAX. 1.5mS

Overload Protection : 250V DC or 250V AC RMS.

INCLUDED ACCESSORIES:

- Carrying Case
- K Type Temperature Probe
- Test Leads
- Instruction Manual
- Battery