



## DT-9962T

### Digital Professional T-RMS Multimeter

The DT-9960 series is a simple 3999 Counts Multimeter series, that is a combination of high precision, easy-to-use, safe and reliable instrument. This meter come with a backlit LCD Display so that you could work in dark areas. The Non-Contact Voltage Detector helps to identify the presence of live wires. The meters have IP-67 thereby rendering it waterproof and dust-proof. It has full overload protection on all ranges.

They confirm to IEC-61010-1, CAT-III 1000V, CAT-IV 600V, CE. It has Class II Double insulation and has surge protection of 8kV Peak as per IEC61010.

#### FEATURES

- 3-3/4 Digits 3999 Counts 42 segment analogue bargraph Backlit LCD Display
- 1000V DC/AC Protection on all ranges.
- 8kV Surge Protection
- Confirms to CAT-III 1000V, CAT-IV 600V, CE
- Fuse Protection in Current Range
- Overload and Low Battery Indication
- Auto Power Off to save battery life
- Measures AC/DC Voltage, AC/DC Current
- Bandwidth 40Hz to 400Hz for AC Voltage & Current
- Also measures Frequency, Capacitance, Temperature, Resistance
- Diode & Continuity Test
- Non Contact Voltage Detector
- Max/Min Record, Peak Capture
- Operating environment: -10 °C to 50 °C (14 °F to 122 °F) at < 70 % RH
- Storage temperature: -30 °C to 60 °C (-4°F to 140°F) at < 80 % RH
- 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: 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) x55 (D) mm
- Weight: Approx.: 375g.

## SPECIFICATIONS

## DC Voltage (Auto-ranging)

Range	Resolution	Accuracy
400.0mV	0.1mV	±1.2% of rdg ± 2 digits
4.000V	1mV	
40.00V	10mV	
400.0V	100mV	
1000V	1V	±1.5% of rdg ± 5 digits

Input Impedance: 10M $\Omega$ 

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

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

Range	Resolution	Accuracy
400.0mV	0.1mV	±1.5% of rdg ± 8 digits
4.000V	1mV	±1.5% of rdg ± 3 digits
40.00V	10mV	
400.0V	100mV	
1000V	1V	±1.5% of rdg ± 5 digits

Input Impedance: 10M $\Omega$ .

AC Response: 50 Hz to 400Hz

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

## DC Current (Auto-ranging)

Range	Resolution	Accuracy
400.0uA	0.1uA	±1.2% of rdg ± 5 digits
4000uA	1uA	
40.00mA	10uA	
400.0mA	100uA	±1.5% of rdg ± 5 digits
10A	10mA	

Overload Protection : FF500mA / 1000V and  
F10A / 1000V Fuse.Maximum Input: 400uA DC on uA range  
400mA DC on mA range  
10A DC on 10A range

## AC Current (T-RMS) (Auto-ranging)

Range	Resolution	Accuracy
400.0uA	0.1uA	±1.5% of rdg ± 5 digits
4000uA	1uA	
40.00mA	10uA	
400.0mA	100uA	
10A	10mA	±1.8% of rdg ± 5 digits

Overload Protection : FF500mA / 1000V and  
F10A / 1000V Fuse

AC Response: 50 Hz to 400 Hz

Maximum Input: 400uA AC RMS on uA  
400mA AC RMS on mA  
10A AC RMS on 10A rangeResistance ( $\Omega$ ) (Auto-ranging)

Range	Resolution	Accuracy
400.0 $\Omega$	0.1 $\Omega$	±1.2% of rdg ± 5 digits
4.000k $\Omega$	1 $\Omega$	±1.2% of rdg ± 2 digits
40.00k $\Omega$	10 $\Omega$	
400.0k $\Omega$	100 $\Omega$	
4.000M $\Omega$	1k $\Omega$	±2.5% of rdg ± 8 digits
40.00M $\Omega$	10k $\Omega$	

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

## Capacitance (Auto-ranging)

Range	Resolution	Accuracy
40.00nF	10pF	±5.0% of rdg ± 7 dgts
400.0nF	0.1nF	±3.0% of rdg ± 5 dgts
4.000uF	1nF	
40.00uF	10nF	
400.0uF	0.1uF	
4.000mF	1uF	±5.0% of rdg ± 7 dgts
40.00mF	10uF	

Input Protection: 1000V DC or 1000V AC RMS

## Frequency (Auto-ranging)

Range	Resolution	Accuracy
4.000KHz	1 Hz	±1.0% of rdg ± 3 dgts
40.00kHz	10Hz	
400.0kHz	100Hz	
10.00MHz	1kHz	±1.2% of rdg ± 4 dgts

Sensitivity : >0.5V RMS while  $\leq$ 1MHz ;

Sensitivity : &gt;3V RMS while &gt;1MHz ;

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

## Duty Cycle

Range	Resolution	Accuracy
0.1%~99.9%	0.1%	±1.2% of rdg ± 2 dgts

Pulse width: &gt;100us, &lt;100ms;

Frequency width: 5Hz – 150kHz

Sensitivity: &lt;0.5V RMS

Overload protection: 1000V DC OR AC RMS.

## Temperature

Range	Resolution	Accuracy
-20°C~+760°C	1°C	±3% of rdg ± 5dgts
-4°F~+1400°F	1°F	±3% of rdg ± 8dgts

Sensor: Type K Thermocouple

Overload protection: 1000V DC or AC RMS.

## Diode Test

Test Current	Resolution	Accuracy
1Matypical / Open MAX.3V	1 mV	±10% of rdg ± 5 digits

Open circuit voltage: MAX. 3V DC

Overload protection: 1000V DC or AC RMS.

## Audible continuity

Audible threshold : Less than 35 $\Omega$  Test current MAX. 1.5mA

Overload protection : 1000V DC or AC RMS.

## INCLUDED ACCESSORIES:

- Carrying Case
- Temperature Probe
- Test Leads
- Instruction Manual
- Battery
- Test Certificate