



DT-9961

Digital Professional Multimeter

The DT-9960 series are a simple 3999 Counts Multimeter series, that is a combination of high precision, easy-to-use, safe and reliable instrument. All the meters 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 water-proof 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 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
- Also measures Frequency, Capacitance, Temperature, Resistance
- Diode & Continuity Test
- Non Contact Voltage Detector
- Relative Measurement
- 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	±0.8% of rdg ± 2 digits
4.000V	1mV	
40.00V	10mV	
400.0V	100mV	
1000V	1V	±1% of rdg ± 2 digits

Input Impedance: 10MΩ

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

AC Voltage (Auto-ranging)

Range	Resolution	Accuracy
400.0mV	0.1mV	±1.0% of rdg ± 3 digits
4.000V	1mV	
40.00V	10mV	
400.0V	100mV	
1000V	1V	±1.2% of rdg ± 5 digits

Input Impedance: 10MΩ.

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 ± 3 digits
4000uA	1uA	
40.00mA	10uA	
400.0mA	100uA	
10A	10mA	±2.5% of rdg ± 3 digits

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 (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	±3.0% of rdg ± 5 digits

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

AC Response: 50 Hz to 400 Hz
Maximum Input: 4400uA AC RMS on uA
400mA AC RMS on mA
10A AC RMS on 10A range

Resistance (Ω) (Auto-ranging)

Range	Resolution	Accuracy
400.0Ω	0.1Ω	±0.8% of rdg ± 5 digits
4.000kΩ	1Ω	±0.8% of rdg ± 2 digits
40.00kΩ	10Ω	
400.0kΩ	100Ω	
4.000MΩ	1kΩ	±2.5% of rdg ± 8digits
40.00MΩ	10kΩ	

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	
100.0uF	0.1uF	±5.0% of rdg ± 7 dgts

Input Protection: 1000V DC or 1000V AC RMS

Frequency (Auto-ranging)

Range	Resolution	Accuracy
4.000Hz	0.001Hz	±1.0% of rdg ± 3 dgts
40.00 Hz	0.01Hz	
400.0 Hz	0.1Hz	
4.000KHz	1 Hz	
40.00kHz	10Hz	
400.0kHz	100Hz	
5.00MHz	1kHz	±1.2% of rdg ± 4 dgts

Sensitivity : >0.5V RMS while ≤1MHz ;

Sensitivity : >3V RMS while >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: >100us, <100ms;

Frequency width: 5Hz – 150kHz

Sensitivity: <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 than50Ω 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