



# DT-916

## AUTORANGING DIGITAL MULTIMETER

### Safety Instructions

Input Limits	
Function	Maximum Input
V DC or V AC	CATIII-600V DC /AC
mA DC/AC	200mA/250V DC/AC
A DC/AC	10A/250V DC/AC (30 seconds max every 15 minutes)
Resistance, Diode test, Continuity, Temperature	250V DC/AC

### General Specifications

The instrument complies with	EN61010-1
Insulation	Class2, Double insulation
Overvoltage category	CATIII 600V
Display	4000 counts LCD display with function indication
Polarity	Automatic, (-) negative polarity indication
Overrange	"OL" mark indication
Low battery indication	The "BAT" 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	0°C to 50°C (32°F to 122°F) at < 70 % relative humidity
Storage temperature	-20°C to 60°C (-4°F to 140°F) at < 80 % relative humidity.
For inside use, max height	2000m
Pollution degree	2
Power	One 9V battery , NEDA 1604, IEC 6F22
Dimensions	138 (H) x 68 (W) x 37 (D) mm
Weight: Approx.	210g.
Accuracy is given at 18°C to 28°C (65°F to 83°F), less than 70 % RH	

### Electrical Specifications

#### DC Voltage (Auto-ranging)

Range	Resolution	Accuracy
400.0mV	0.1mV	±0.5% of rdg ±2 dgts
4.000V	1mV	±1.2% of rdg ±2 dgts
40.00V	10mV	
400.0V	100mV	
600V	1V	±1.5% of rdg ±2 dgts

Input Impedance : 7.8MΩ.

Maximum Input : 600V dc or 600V ac rms.

#### DC Current (Auto-ranging for uA and mA)

Range	Resolution	Accuracy
400.0uA	0.1uA	±1.0% of rdg ±3 dgts
4000uA	1uA	±1.5% of rdg ±3 dgts
40.00mA	10uA	
400.0mA	100uA	
10A	10mA	±2.5% of rdg ±5 dgts

Overload Protection : 0.5A / 250V and 10A / 250V Fuse.

Maximum Input : 400mA dc or 400mA ac rms on uA / mA ranges,  
10A dc or ac rms on 10A range.

#### AC Voltage (Auto-ranging except 400mV)

Range	Resolution	Accuracy
400.0mV	0.1mV	±1.5% of rdg ±70 dgts
4.000V	1mV	±1.2% of rdg ±3 dgts
40.00V	10mV	±1.5% of rdg ±3 dgts
400.0V	100mV	
600V	1V	±2.0% of rdg ±4 dgts

Input Impedance : 7.8MΩ.

Frequency Range : 50 to 400Hz

Maximum Input : 600V dc or 600V ac rms.

#### AC Current (Auto-ranging for uA and mA)

Range	Resolution	Accuracy
400.0uA	0.1uA	±1.5% of rdg ±5 dgts
4000uA	1uA	±1.8% of rdg ±5 dgts
40.00mA	10uA	
400.0mA	100uA	
10A	10mA	±3.0% of rdg ±7 dgts

Overload Protection : 0.5A / 250V and 10A / 250V Fuse.

Frequency Range : 50 to 400 Hz

Maximum Input : 400mA dc or 400mA ac rms on uA / mA ranges,  
10A dc or ac rms on 10A range.

Contact :

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**Electrical Specifications****Resistance (Auto-ranging)**

Range	Resolution	Accuracy
400.0Ω	0.1Ω	±1.2% of rdg ±4 dgts
4.000kΩ	1Ω	±1.0% of rdg ±2 dgts
40.00kΩ	10Ω	±1.2% of rdg ±2 dgts
400.0kΩ	100Ω	
4.000MΩ	1kΩ	
40.00MΩ	10kΩ	±2.0% of rdg ±3 dgts

Input Protection : 250V dc or 250V 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 ±5 dgts

Input Protection : 250V dc or 250V ac rms.

**Frequency (Auto-ranging)**

Range	Resolution	Accuracy
5.000Hz	0.001Hz	±1.5% of rdg ±5 dgts
50.00Hz	0.01Hz	
500.0Hz	0.1Hz	±1.2% of rdg ±3 dgts
5.000kHz	1Hz	
50.00kHz	10Hz	
500.0kHz	100Hz	
5.000MHz	1kHz	
10MHz	10kHz	±1.5% of rdg ±4 dgts

Sensitivity : >8V RMS

Overload protection : 250V dc or 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 : >8V RMS

Overload protection : 250V dc or ac rms.

**Accessories**

Carrying Case, Testing Leads, Temperature Probe, Battery, Instruction Manual and Test Certificate.

**Temperature**

Range	Resolution	Accuracy
-20°C ~ +760°C	1°C	±3% of rdg
-4°F ~ +1400°F	1°F	±5°C /9°F

Sensor : Type K Thermocouple

Overload protection : 250V dc or ac rms.

**Diode Test**

Test current	Resolution	Accuracy
0.3mA typical	1 mV	±10% of rdg ±5 dgts

Open circuit voltage : 1.5V dc typical

Overload protection : 250V dc or ac rms.

**Audible continuity**

Audible threshold : Less than 150Ω

Test current : <0.3mA

Overload protection : 250V dc or ac rms

**Range Button**

To change the meter from AUTO-RANGING to MANUAL RANGING mode and Vice-versa.

**Data Hold**

Allows the meter to “freeze” a measurement for later reference.

**Relative Button**

Allows to make measurements relative to a stored reference value.

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