



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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