

3^{1/2} Digital Multimeter

DURATOOL



Features

- 3^{1/2} digital multiple with 7 sections LCD display
- Press the BACKLIGHT button to turn on the backlights
- Function and range switch
- Data hold button
- Direct current voltage measurement
- Alternating voltage measurement
- Diode, resistor, temperature and circuit on-off measurement
- 1999 maximum display value
- Low voltage indication
- 9V battery, NEDA 1604 or 6F22 powered

Specifications

Fuse	: F1 250mA/250V F2 10A/250V
Power	: 9V battery, NEDA 1604 or 6F22
Maximum display value	: 1999
Over-range Indication	: "1"
Polarity Display	: " - " for negative polarity
Operating Temperature	: 0°C to +40°C
Storage Temperature	: -10°C to +50°C
Low Voltage Indication	: "⊖" on the display
Dimension	: 138mm×69mm×31mm
Weight	: 170g
Max. Voltage between Input and the ground	: CATII 600V
Contents	: Multimeter, One pair of probes, Instruction manual, One 9V battery NEDA 1604 6F22.

Direct Current Voltage Measurement

Range	Resolution	Accuracy
200mV	100μV	±0.5% of reading, ±3 digits
2V	1mV	±0.5% of reading, ±3 digits
20V	10mV	±0.5% of reading, ±3 digits
200V	100mV	±0.5% of reading, ±3 digits
600V	1V	±0.8% of reading, ±5 digits

Overload protection: 200mV range: 250V DC or RMS;
The rest ranges: 600V DC or RMS.

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Direct Current Measurement

Range	Resolution	Accuracy
20μA	0.01μA	±1% of reading, ±3 digits
200μA	0.1μA	±1% of reading, ±3 digits
2mA	1μA	±1% of reading, ±3 digits
20mA	10μA	±1% of reading, ±5 digits
200mA	100μA	±1.5% of reading, ±5 digits
10A	10mA	±3% of reading, ±10 digits

Overload protection: F1 200mA/250V Fuse F2 10A/250V

Alternating Voltage Measurement

Range	Resolution	Accuracy
200V	100mV	±1.2% of reading, ±10 digits
600V	1V	±1.2% of reading, ±10 digits

Overload protection: 600V DC or RMS

Frequency range: 40Hz to 400Hz

Display: Average (effective value of sinusoid)

Resistor

Range	Resolution	Accuracy
200Ω	0.1Ω	±0.8% of reading, ±5 digits
2kΩ	1Ω	±0.8% of reading, ±2 digits
20kΩ	10Ω	±0.8% of reading, ±2 digits
200kΩ	100Ω	±0.8% of reading, ±2 digits
2MΩ	1kΩ	±1.0% of reading, ±5 digits

Maximum open circuit voltage: 3.2V

Overload protection: 250V DC or RMS

Diode and Circuit On-Off Measurement

Range	Description
•)	When the on-resistance is smaller than $(70 \pm 30)\Omega$, the built-in buzzer will sound.
→	Displays the approximate diode positive voltage.

Overload protection: 250V DC or RMS. AC.

Temperature Measurement

Range	Resolution	Measurement	Accuracy
°C	1°C	-20°C to 0°C	±10% Range, ±2 digits
		-0°C to 400°C	±1.0% Range, ±3 digits
		400°C to 1000°C	±2.0% Range



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Operation

- Plug the instrument in and check the 9V battery. If it is low the “” symbol will display, meaning the battery needs replacing.
- The  besides the probe jack indicates that the input voltage or current should not exceed the specified limits, in order to protect the internal circuit.
- Before measurement, turn the function/range switch to the desired range.

Direct Voltage Measurement

- Insert the red probe into the “VΩmA” jack and the black one into the COM jack.
- Turn the function/range switch to the range of  and connect the probe to the power supply or load to be measured. The polarity touched by the red probe will be on the display.
- Overload protection: 250V DC or AC (RMS)

Part Number Table

Description	Part Number
3 ^{1/2} Digital Multimeter	D03125

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