

3½ Digital Multimeter

DURATOOL



Features

- 3½ 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±30)Ω, 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 **V**  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
3½ Digital Multimeter	D03125

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