Tasira
Instruments & Services

INTRODUCTION

This 20000 counts multimeter is a 4-1/2 digits T-RMS Auto-ranging, has a high precision, stable performance, battery-driven, having high reliability and highly accurate instrument. It has a 21mm character height super Large LCD screen with backlit and has a function to record peak value, it can be used to measure DC voltage and AC voltage, DC current and AC Current, Resistances, Capacitance, Diodes, Temperature, Non Contact Voltage Detection, Frequency and other parameters. It has dual display to show both Frequency and Voltage on the same screen. The instrumentuses double integral A / D conversion for processing, is a superior performance instrument, and is ideal to be used in laboratory, factories, radio enthusiasts and the ideal home tools.

SPECIFICATION GENERAL

- Display: 20,000 Counts Backlit Dual LCD display
- T-RMS Measurements of Voltage and Current
- Data Hold, Peak Hold
- Relative Measurement
- Non Contact Voltage Detection
- Auto Power Off
- Maximum display: 20000 (4-1/2) digits automatic polarity display;
- Measurement method: double integral A / D conversion;
- Sampling rate: about 3 times per second;
- Over-range display: the highest bit was "OL";
- Low voltage display: " " ;
- Working environment: (0 ~ 40) °C, relative humidity <8 0%;
- Power: 9V (NEDA1604 / 6F22);
- Size: 184 *90 *46mm (length ,width and height);
- Weight: about 320g (including 9V battery);
- Accessories: A manual, Test Certificate, a pair of test leads, K-type thermocouple.

*Technical Specifications & Appearance are subjet to change without prior notice

TECHNICAL SPECIFICATIONS

DC Voltage (DCV)

Range	Accuracy	Resolution
200mV	(0.05%+5)	0.01mV
2V		0.0001V
20V		0.001V
200V		0.01V
1000V	(0.08%+10)	0.1V

Input impedance: 10M Ω

Overload protection: 200mV range of 550V DC or AC peak; the remaining 1000V DC or 750V AC peak.

AC Voltage (T-RMS)

Range	Accuracy	Resolution
200mV	(0.06%+25)	0.01mV
2V		0.0001V
20V		0.001V
200V		0.01V
750V	(0.8%+15)	0.1V

Input impedance: 10MΩ; standard sine wave and triangular wave frequency response of 40Hz-1kHz; other waveform frequency response 40Hz-200Hz;

DC Current

Range	Accuracy	Resolution
200uA	(0.5%+4)	0.01uA
2000uA		0.000mA
20mA	(0.8%+6)	0.001A
200mA		0.01A
10A	(1.0%+6)	0.1A

Maximum measurement pressure drop: 200mV; Maximum input current of 10A

Overload protection: 200mA/250Vglass instant fuse, 10A / 250V ceramic instant fuse
(10A continuous measurement <10 seconds)

AC Current (T-RMS)

Range	Accuracy	Resolution
200uA	(0.5%+4)	0.01uA
2000uA		0.000mA
20mA	(0.8%+6)	0.001A
200mA		0.01A
10A	(1.0%+6)	0.1A

Maximum measurement pressure drop: 200mV; Maximum input current of 10A;

Overload protection: 200mA/250V glass instant fuse, 10A / 250V ceramic instant fuse (10A continuous measurement<10 seconds)

Frequency response: sine wave and triangular wave for the 40Hz-1Kz, other waveform 40Hz-200Hz; Show: True RMS;

Resistance

Range	Accuracy	Resolution
200Ω	(0.3%+10)	0.01Ω
2kΩ	(0.3%+5)	0.1Ω
20kΩ		1Ω
200kΩ		10Ω
2MΩ		100Ω
20MΩ	(1.2%+25)	1kΩ

Open circuit voltage: below 3V; Overload protection: 550VDC or AC peak value;

NCV Testing: When chosing this function the instrument detects presence of electro-magnetic field, the buzzer sound will start and would increase with the intensity of electro-magnetic field.

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Capacitance

Range	Accuracy	Resolution
20nF	(3.0%+20)	1pF
200nF		10pF
2uF		0.1nF
20uF		1nF
200uF	(5.0%+10)	10nF
2000uF		100nF

Overload protection: 550V DC or AC peak value.

Diode and Continuity Testing

Range	Display value	Testing condition
⊣▷⊢	Positive diode voltage drop	PositiveDC currenabout1mA, Open circuit voltage about 3V,
)))	Buzzer with lonbuzzing Sound The resistance of 2 testing point below (50±2 0)Ω	Opencircuitvoltagabout 3V Press "SELECT" can convert the 2 function

Overload protection: 550V DC or AC peak value

Frequency

Range	Accuracy	Resolution
10Hz	(0.01%+3)	0.001 Hz
100 Hz		0.01 Hz
1k Hz		0.1 Hz
10k Hz		1 Hz
100k Hz		1 0Hz
1M Hz/20M Hz	(0.8%+15)	100Hz/1k Hz

Input sensitivity: 1.5V RMS;
Overload protection : 550V DC or AC peak value (not over 10second)

Temperature

Range	Accuracy	Resolution
(-20-1000)°C	(1.0%+5) <400°C (1.5%+15) ≥400°C	1°C
(0-1832)°F	(0.75%+5) <750°F (1.5%+15) ≥750°F	1°F

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