

# METRAVI 6000 COUNTS T-RMS DIGITAL MULTIMETER 901-IV

Input Limits	
Function	Maximum Input
V DC or V AC	1000V DC /AC
A DC/AC	10A DC/AC (30 sec. max every 15 minutes)
Frequency, Resistance, Capacitance, Duty Cycle, Diode test, Continuity	600V DC/AC
Temperature	600V DC/AC

## AC Voltage (T-RMS)

Range	Resolution	Accuracy
6.000V	1mV	±1.5% of rdg ±10 dgts
60.00V	10mV	
600.0V	100mV	
1000V	1V	±2.0% of rdg + ±10 dgts

**Input Impedance** : 7.8MΩ.  
**Frequency Range** : 50 to 60Hz  
**Maximum Input** : 1000V DC or 1000V AC rms.

## DC Current

Range	Resolution	Accuracy
6A	1mA	±2.5% of rdg ± 5 dgts
10A	10mA	

**Overload Protection** : 10A / 250V Fuse.  
**Maximum Input** : 10A DC or AC rms on 10A DC range.

## AC Current (T-RMS)

Range	Resolution	Accuracy
6A	1mA	±3.0% of rdg ± 5 dgts
10A	10mA	

**Overload Protection** : 10A / 250V Fuse.  
**Frequency Range** : 50 to 60 Hz  
**Maximum Input** : 10A DC or AC rms on 10A AC range.

## Resistance

Range	Resolution	Accuracy
600.0Ω	0.1Ω	±1.2% of rdg + 4 dgts
6.00kΩ	1Ω	±1.0% of rdg + 2 dgts
60.00kΩ	10Ω	±1.2% of rdg + 2 dgts
600.0kΩ	100Ω	
6.000MΩ	1kΩ	±2.0% of rdg ± 10 dgts
60.00MΩ	10kΩ	±5.0% of rdg ± 10 dgts

**Maximum Input** : 600V DC or 600V AC rms.

## Capacitance (Auto-ranging)

Range	Resolution	Accuracy
40.00nF	1pF	±5.0% of rdg±50 dgts
400.0nF	0.1nF	
4.000uF	1nF	±3.0% of rdg ±5 dgts
40.00uF	10nF	
400.0uF	0.1uF	±5.0% of rdg ±5 dgts
4000uF	1uF	

**Maximum Input** : 600V DC or 600V 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** : 600V DC or AC rms.



## GENERAL SPECIFICATIONS

**The instrument complies with:** EN61010-1.  
**Insulation:** Class2, Double insulation.  
**Overvoltage category:** CATIII 600V, CATII 1000V.  
**Display:** 6000 counts LCD display with function indication.  
**Polarity:** Automatic, (-) negative polarity indication.  
**Overrange:** "OL" mark indication.  
**AC Response:** True RMS (50 Hz or 60 Hz)  
**True RMS:** The term stands for "Root-Mean-Square", which represents the method of calculation of the voltage or current value. Average responding multimeters are calibrated to read correctly only on sine waves and they will read inaccurately on non-sine wave or distorted signals. True rms meters read accurately on either type of signal.  
**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. 15 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:** 150 (H) x 70 (W) x 48 (D) mm  
**Weight:** Approx.: 255g.  
**Hold :** To freeze displayed data  
**Max/Min :** To record max/min values

## TECHNICAL SPECIFICATIONS

Accuracy is given at 18°C to 28°C (65°F to 83°F), less than 70% RH

### DC Voltage

Range	Resolution	Accuracy
600.0mV	0.1mV	±0.5% of rdg + 2 dgts
6.000V	1mV	±1.2% of rdg + 2 dgts
60.00V	10mV	
600.0V	100mV	
1000V	1V	±1.5% of rdg + 2 dgts

**Input Impedance** : 7.8MΩ.  
**Maximum Input** : 1000V DC or 1000V AC rms.

### Frequency (Auto-ranging)

Range	Resolution	Accuracy
9.999Hz	0.001Hz	±1.5% of rdg ±5 dgts
99.99Hz	0.01Hz	
999.9Hz	0.1Hz	±1.2% of rdg ±3 dgts
9.999kHz	1Hz	
99.99kHz	10Hz	
999.9kHz	100Hz	
20MHz	1kHz	±1.5% of rdg ±4 dgts

**Sensitivity** : >0.5V RMS while ≤ 1MHz ;  
**Sensitivity** : >3V RMS while >1MHz ;  
**Overload protection** : 600V DC or 600V AC rms.

### Duty Cycle

Range	Resolution	Accuracy
0.1%~99.9%	0.1%	±1.2% of rdg ±2 dgts

**Pulse width** : >100us, <100ms;  
**Frequency** : 5Hz - 150kHz  
**Sensitivity** : >0.5V RMS  
**Overload protection** : 600V DC or 600V AC rms.

### Temperature

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

**Sensor** : Type K Thermocouple  
**Overload protection** : 600V DC or AC rms..

### Audible continuity

**Audible threshold** : Less than 100Ω;  
**Test current** : < 0.3mA  
**Overload protection** : 600V DC or AC rms.

\*Technical Specifications & Appearance are subject to change without prior notice