

# METRAVI 6000 COUNTS DIGITAL MULTIMETER 901-III

Input Limits	
Function	Maximum Input
V DC or V AC	CATII-1000V DC /AC
	CATIII-600V DC /AC
mA DC/AC	200mA DC/AC
A DC/AC	10A DC/AC (30 sec. max every 15 minutes)
Resistance, Diode test, Continuity, Temperature	600V DC/AC

## AC Voltage (Auto-ranging except 40mV)

Range	Resolution	Accuracy
6.000V	1mV	$\pm 1.2\%$ of rdg $\pm 3$ dgts
60.00V	10mV	$\pm 1.5\%$ of rdg $\pm 3$ dgts
600.0V	100mV	$\pm 1.5\%$ of rdg $\pm 3$ dgts
1000V	1V	$\pm 2.0\%$ of rdg $\pm 4$ dgts

Input Impedance : 7.8M $\Omega$ .

Frequency Range : 50 to 60Hz

Maximum Input : 1000V DC or 1000V AC rms.

## DC Current

Range	Resolution	Accuracy
6A	1mA	$\pm 2.5\%$ of rdg $\pm 5$ dgts
10A	10mA	

Overload Protection: 10A / 250V Fuse.

Maximum Input : 10A DC or AC rms on 10A DC range.

## AC Current

Range	Resolution	Accuracy
6A	1mA	$\pm 3.0\%$ of rdg $\pm 5$ dgts
10A	10mA	

Overload Protection: 10A / 250V Fuse.

Frequency Range : 50 to 60Hz

Maximum Input : 10A DC or AC rms on 10A AC range.

## Resistance

Range	Resolution	Accuracy
600.0 $\Omega$	0.1 $\Omega$	$\pm 1.2\%$ of rdg $\pm 4$ dgts
6.00k $\Omega$	1 $\Omega$	$\pm 1.0\%$ of rdg $\pm 2$ dgts
60.00k $\Omega$	10 $\Omega$	$\pm 1.2\%$ of rdg $\pm 2$ dgts
600.0k $\Omega$	100 $\Omega$	
6.000M $\Omega$	1k $\Omega$	$\pm 2.0\%$ of rdg $\pm 2$ dgts
60.00M $\Omega$	10k $\Omega$	$\pm 5.0\%$ of rdg $\pm 10$ dgts

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

## Capacitance (Auto-ranging)

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

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

## Diode Test

Test current	Resolution	Accuracy
0.3mA typical	1 mV	$\pm 10\%$ of rdg $\pm 5$ 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.

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

Hold: To freeze the displayed data

Max./Min. : To record Max. and Min. data

Power: One 9V battery , NEDA 1604, IEC 6F22.

Dimensions: 150 (H) x 70 (W) x 48 (D) mm

Weight: Approx.: 255g.

## TECHNICAL SPECIFICATIONS

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

### DC Voltage (Auto-ranging)

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

Input Impedance : 7.8M $\Omega$ .

Maximum Input : 1000V DC or 1000V AC rms.

### Frequency (Auto-ranging)

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

Sensitivity : >0.5V RMS while  $\leq 1$ MHz ;

Sensitivity : >3V RMS while >1MHz ;

Overload protection : 600V DC or 600V AC rms.

### Duty Cycle

Range	Resolution	Accuracy
0.1%~99.9%	0.1%	$\pm 1.2\%$ of rdg $\pm 2$ 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~+	1 °C	$\pm 3\%$ of rdg
760°C		
-4 °F~+	1°F	$\pm 5\%/9\%$
1400 °F		

Sensor : Type K Thermocouple

Overload protection : 600V DC or AC rms..

### Audible continuity

Audible threshold : Less than 150 $\Omega$

Test current : < 0.3mA

Overload protection : 600V DC or AC rms.

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

**THE QUALITY LEADER**

**www.metravi.com**