

## INTRODUCTION

This is a pocket-sized 3-5/6-digit Auto-Ranging Digital Clamp Meter. It has stable performance, high precision & reliability, clear reading LCD Display and overload protection. Driven by AAA 1.5V battery, the instrument has large screen Backlit LCD display and it boosts power supply by Auto Power Off Function. The meter is easy to carry and is very popular among users.

The instrument's backlight can be turned on and off automatically after 15 seconds. This meter can be used to measure DC Voltage and AC Voltage, AC Current 600A, Resistance, Capacitance, Diode, Temperature, Continuity Test, Square wave output, Frequency Measurement and has True-RMS Measurement. It is a superior tool and an ideal tool for laboratories, factories, radio enthusiasts and hobbyists.

## GENERAL SPECIFICATIONS

**Display** : Backlit liquid crystal display (LCD);

**Maximum Display** : 5999 (3 5/6) bit automatic polarity display;

**Measurement Method** : double integral A/D conversion;

**Sampling Rate** : about 3 times per second;

**Over-Range Display** : The highest position shows "OL";

**Low Voltage Display**: "  "symbol appears;

**Non-Contact Voltage Detector**

**Flashlight to access dark areas**

**Data Hold to Freeze Displayed Data**

**Relative Measurement**

**Working Environment** : (0~40)°C, Relative humidity <80%;

**Power** : AAA 1.5V battery;

**Size** : 176×67×33mm (L×W×H);

**Weight** : About 300g (including 1.5V battery);

**Accessories** : One instruction manual, one certificate, one leather case, one outer packaging box, one pair of test leads, one type K thermocouple TP01 temperature probe, two AAA1.5V batteries



**THE QUALITY LEADER**

**www.metravi.com**

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

## DC Voltage (DCV)

Range	Accuracy	Resolution
6V	± (0.5%+3)	0.001V
60V		0.01V
600V		0.1V
1000V	± (0.8%+10)	1V

**Input impedance** : 10MΩ

**Overload protection** : 6V range is 550V DC or AC peak ; the rest is 1000V DC or 750V AC peak.

## AC Voltage (ACV) (T-RMS)

Range	Accuracy	Resolution
6V	± (0.8%+3)	0.001V
60V		0.01V
600V		0.1V
750V	± (1.2%+10)	1V

**Input impedance** : 10MΩ

standard sine wave and triangle wave frequency response is 40Hz - 1kHz; other waveform frequency response is 40Hz - 200Hz;

## AC Current (ACA) (T-RMS)

Range	Accuracy	Resolution
6A	± (2%+30)	0.001A
60A		0.01A
600A		0.1A

**Maximum measured voltage drop** : 600mV;

**overload protection** : 600A;


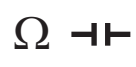
## Resistance

Range	Accuracy	Resolution
600 Ω	± (0.8%+5)	0.1Ω
6k Ω	± (0.8%+3 )	1Ω
60k Ω		10Ω
600k Ω		100Ω
6M Ω		1k Ω
40M Ω	± (2.5%+3)	10k Ω

**Open circuit voltage** : 1V;

**Overload protection** : 550V DC or AC peak;

## Diode and Continuity Test

Range	Display Value	Test Condition
	Diode forward voltage drop	Forward DC current is about 1mA, open circuit voltage is about 3V
	The buzzer sounds long and the resistance of the test is less than (50±20) Ω.	Open circuit voltage is about 3V, press "SELECT" for two-speed function switching

**Overload protection** : 550V DC or AC peak;

**Warning** : For the safety, the input voltage value is prohibited in this range!

## Capacitance

Range	Accuracy	Resolution
60nF	± (3.5%+20)	10pF
600nF		100pF
6uF		1nF
60uF		10nF
600uF	± (5%+3)	100nF
6mF		1uF
30mF		10uF

**Overload protection** : 550V DC or AC peak .

### Frequency Measurement

Range	Accuracy	Resolution
10Hz	± (0.1%+3)	0.01Hz
100Hz		0.1Hz
1kHz		1Hz
10kHz		10Hz
100kHz		100Hz
1MHz		1kHz
10MHz		10kHz

**Input Sensitivity :** 1V RMS;

**Overload Protection:** 550VDC or AC peak  
(no more than 10 seconds)

### Temperature Measurement (°C / °F)

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

Square wave output (□□)

The operation is as follows: (top right)

- Dial to '□□ OUT' ; (default starting output is 50Hz);
- Insert the two inputs of the device under test into the " V / Ω / Hz " and "COM " terminals of the red test pen.
- Trigger the " SELECT " button. The " V / W / Hz " and "COM" terminals of the table respectively output 50Hz-100Hz-200Hz-300Hz-400Hz-500Hz-600Hz-700Hz-800Hz-900Hz-1000Hz-2000Hz-3000Hz-4000Hz-5000Hz. At the same time, the LCD screen displays the current output value.