

INTRODUCTION

The Metravi DT-115A is a 3-5/6 Digit 6000 Counts, T-RMS, Auto Scanning, Pocket-sized Digital Clamp Meter.

The unique feature of this meter is that it is fully automatic and does not even require a dial to select the required function. It is an intelligent meter that automatically recognizes and measures, based on the input voltage / current / resistance / capacitance.

Along with its automatic recognition feature, it is a very stable and precise testing and measurement instrument, with high reliability, large and clear display and overload protection. It can also detect Non-contact Voltage and comes with a built-in, bright, flashlight.

Even at the edge of 2.3V low battery, it ensures high brightness of both the backlight and flashlight. The instrument's backlight turns off automatically after 15 seconds. Measures AC/DC Voltage, AC Current 600A, Resistance, Capacitance, Diode and Continuity. No switching is required. Parameters such as capacitance, diode and on/off test can be measured by manual switching.

The meter is easy to carry and is very popular amongst users. It is a superior tool and an ideal tool for Laboratories, Factories, Radio Enthusiasts, Hobbyists, Students and Professionals.

GENERAL SPECIFICATIONS

Display : Liquid crystal display (LCD)

Maximum Display : 5999 (3-5/6 Digits) Counts 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"

Jaw Size: 31mm

Low Voltage Display : "  "symbol appears

Non Contact Voltage Detection

In-built Flashlight to access Dark Areas

Data Hold to Freeze Displayed Data

Working Environment : 0 ~ 40°C, relative humidity <80%

Power : AAA 2* 1.5V battery

Volume (size) : 176x67x33mm (LxWxH)

Weight : About 300g (including 1.5V battery)



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DC Voltage Automatic Scanning Test (DCV)

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

Input impedance : 10MΩ

Overload protection : 600V DC peak

AC Voltage T-RMS Automatic Scanning Test (ACV)

Range	Accuracy	Resolution
6V	± (0.5%+3)	0.001V
60V		0.01V
500V	± (0.8%+10)	1V

Input impedance : 10MΩ

Overload protection : 600V DC peak

AC (T-RMS) Current

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

Maximum measured voltage drop : 600mV

Overload protection : 10A



Resistance

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

Input impedance: 10MΩ

Overload protection : 700V DC or 500V AC peak.

Capacitance

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

Overload protection : 700V DC or 500V 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 0.4V, press "power" for two-speed function switching