

### **BENCH-TYPE MULTIMETER**



#### FEATURES

- Compact, portable and ultra-light
- 3.5 inch (480x320) high resolution LCD
- 55000 Counts
- DC Voltage accuracy up to 0.05%
- Up to 60 readings per second
- True RMS AC Voltage & AC Current measurements
- Dual line display supported
- SCPI support
- Data Logging function
- USB or RS232 PC Interface support for Data Analysis

#### INTRODUCTION

The Metravi M-45 Bench-type Digital Multimeter sets a new standard for precision measurement with its True RMS capability and impressive 5-digit, 55000-count display.

Designed for bench-top use, it offers versatile functionality in a compact instrument. With True RMS, it ensures accurate measurements of both AC and DC signals, providing reliable results even in non-linear and distorted waveforms.

Equipped with a convenient USB interface, the multimeter enables seamless connectivity to external devices for data logging and analysis. With an intuitive interface and easy-to-read display, it allows users to quickly and accurately measure Voltage, Current, Resistance, Capacitance, and Frequency.

Ideal for use in laboratories, workshops, or for education with its precision measurement capabilities, portability and user-friendly interface, as an indispensable tool for a wide range of applications.

www.metravi.com



#### **TECHNICAL SPECIFICATIONS**

#### **DC CURRENT**

Range	Resolution	Accuracy: ± (% of reading + LSB)
500 uA	0.01 uA	±0.15% + 20
5000 uA	0.1 uA	±0.15% + 10
50 mA	0.001 mA	±0.15% + 20
500 mA	0.01 mA	±0.15% + 10
5 A	0.0001 A	±0.5% + 10
10 A	0.001 A	±0.5% + 10

#### TRUE RMS AC CURRENT

Range	Resolution	Accuracy: ± (% of reading + LSB)
500 uA -500 mA	20 Hz-1 kHz	±0.5% + 20
5A-10A		±1.5% + 20

#### **DC VOLTAGE**

Range	Resolution	Accuracy: ± (% of reading + LSB)
50.000 mV	0.001 mV	±0.1%+10
500.00 mV	0.01 mV	±0.025% + 5
5.0000 V	0.0001 V	±0.025% + 5
50.000 V	0.001 V	±0.03% + 5
500.00 V	0.01 V	±0.1% + 5
1000.0 V	0.1 V	±0.1%+5

#### TRUE RMS AC VOLTAGE

Range	Resolution	Accuracy: ± (% of reading + LSB)
500 mV- 750V	20 Hz- 45 Hz	±1%+30
	45 Hz- 65 Hz	±0.5%+30
	65 Hz- 1kHz	±0.7%+30

#### RESISTANCE

Range	Resolution	Accuracy: ± (% of reading + LSB)
500 Ω	0.01 Ω	±0.1%+10
5 kΩ	0.0001 kΩ	±0.1%+5
50 kΩ	0.001 kΩ	±0.1%+5
500 kΩ	0.01 kΩ	±0.1%+5
5 ΜΩ	0.0001 MΩ	±0.25% + 5
50 MΩ	0.01 MΩ	±1%+10

\*Technical specifications & appearance are subject to change without prior notice

Setting Trends. Showing the Way.

# Strict testing, quality assurance, passed CE certification



www.metravi.com



#### **TECHNICAL SPECIFICATIONS**

#### CAPACITANCE

Range	Accuracy: ± (% of reading + LSB)
50 nF - 500 uF	±2.5%+5
5 mF - 50 mF	±5%+8

#### FREQUENCY

Range	Accuracy: ± (% of reading + LSB)
10.000 Hz - 60 MHz	± (0.2%+8)

#### CONTINUITY

Range	Resolution
1000 Ω	0.1 Ω

#### DIODE

Range	Resolution
3.0000 V	0.0001 V

#### **OTHERS**

Temperature	K type, Pt100
Display	55,000
Record Interval	15 mS - 9999.999 S
<b>Record Length</b>	1,000 points



\*Technical specifications & appearance are subject to change without prior notice

Setting Trends. Showing the Way.



## **5 DIGITS BENCH-TYPE MULTIMETER**

## M-45

#### **GENERAL SPECIFICATIONS**

Display	: 3.5-inch TFT LCD with resolution 480*320
Data Logging	: Auto/Manual Mode, 1000 data
Safety Certifications	: CATI 1000V, CATII 600V
Accessories	: Test Leads, Crocodile Clips, Power Cord, Spare Fuse
Operating Environment	: Full temperature from 0°C to 50°C, ≤80% RH and 40°C non-condensing
Storage Environment	: Storage Temperature: -20°C to 70°C, ≤80%RH
Remote Interface	: USB Device
Programmer Language	: Standard SCPI, compatible with commands of main stream multimeters
Warm-up Time	: 30 minutes
Dimensions	: (W×H×D) 200 x 86.5 x 64 mm
Weight	: 0.45 kgs

## Large LCD Display





Easy to carry, saving working space.

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

Setting Trends. Showing the Way.

www.metravi.com