


## INTRODUCTION

The Metravi XB-33CF is a pocket-sized 3 5/6-digits, 6000 counts, auto-ranging multimeter. It has stable performance, high precision, high reliability, clear reading, with overload protection.

With AAA 1.5V battery the instrument uses a large-screen LCD display, boost power supply, even in the 2.3V low battery, it can guarantee high backlight brightness, the meter is easy to carry, has a vast number of usages, the backlight can be automatically turned off after 15 seconds.

This instrument can be used to measure DC voltage, AC voltage, DC current, AC current, Resistance, Capacitance, Temperature, Frequency, Diode, Continuity Test, Non Contact Voltage detection, true RMS measurement and other parameters. It is an ideal tool for the laboratory, factory, radio enthusiasts and families.

## GENERAL CHARACTERISTICS

- Big Liquid Crystal Display (LCD)
- Maximum display: 6000 (5 5/6) Counts with Automatic Polarity Double Integral
- A / D Conversion measurement
- Data Hold
- MAX/MIN Record Function
- Relative Measurement
- Non-contact Voltage Detector
- Flashlight to access dark areas
- While measuring Voltage, press select button to see the Frequency
- While measuring Current, press select button to see the Frequency sampling
- Sampling Rate: about 3 times per second
- Over-range display: displays "0L"
- Low Voltage display : "  " symbol appears
- Working Environment : 0~40°C, Relative Humidity <80%RH
- Power Supply: AAA 1.5V Battery
- Volume (size): 142×70×32mm (L×W×H)
- Weight: about 205g (including 1.5V battery)
- Accessories: User Manual, Pair of Test Leads, 2 x AAA1.5V Batteries

## TECHNICAL CHARACTERISTICS

Accuracy (reading data of a%+ least significant digits), guaranteed accuracy environment temperature: (23.5)°C.  
Relative humidity <75%, calibration guarantee period from the date of manufacture for one year.



Battery measure



Resistance measurement



Diode measurement

### Metravi XB-33CF



AC / DC / NCV measurement



temperature measure



Capacitance measurement

**DC VOLTAGE**

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

**AC Voltage(T-RMS)**

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

**DC CURRENT**

Range	Accuracy	Resolution
600uA	± (1.2%+10)	0.1uA
6000uA		1uA
60mA		10uA
600mA		100uA
6A	± (2.0%+30)	0.001A
10A		0.01A

**AC CURRENT T-RMS**

Range	Accuracy	Resolution
600uA	± (1.2%+10)	0.1uA
6000uA		1uA
60mA		10uA
600mA		100uA
6A	± (2.0%+30)	0.001A
10A		0.01A

**RESISTANCE**

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

**CAPACITANCE**

Range	Accuracy	Resolution
60nF	± (3.5%+20)	10pF
600nF		100pF
6uF		1nF
60uF		10nF
600uF		100nF
6mF	± (5%+3)	11uF
30mF		10uF


**FREQUENCY**

Range	Accuracy	Resolution
10Hz	± (0.1%+3)	0.01Hz
100Hz		0.1Hz
1kHz		1Hz
10kHz		10Hz
100kHz		100Hz
1MHz		1kHz
20MHz		10kHz

**TEMPERATURE**

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

**DIODES AND ON-OFF TEST**

Range	Display Value	Test Conditions
	Diode forward voltage drop	Positive DC current of about 1mA, open circuit voltage of about 3V,
	The buzzer buzzes for a long time, and the test resistance is less than (50±20) Ω	Open circuit voltage is about 3V Press "SELECT" to switch between two functions