



# MT312 RCD/ELCB Tester

The MT312 is a compact, versatile tester designed for 3-wire AC circuits, supporting ELCB/RCD testing, loop impedance measurement, and polarity verification. It features a Non-Contact Voltage (NCV) function for safe AC voltage detection and displays wiring status clearly on a large, easy-to-read LCD screen. Voltage measurements between Live and Neutral, as well as Neutral and Earth, are shown directly on the display. The MT312 automatically performs loop impedance testing to verify correct wiring, with intuitive LED indicators: Green for Good, Orange for Check Circuit, and Red for Urgent Check—highlighting any potential faults. During ELCB/RCD testing, the device measures fault trip times up to 99.9ms, with a 10-second buzzer alert confirming a successful trip. A key feature of the MT312 is its interchangeable leads, enabling testing of standard power outlets with the included test leads or distribution boards using the optional MT350L test lead set.



## Features

- Compact, versatile tester for 3-wire AC circuits
- Performs ELCB/RCD testing, loop impedance measurement, and polarity verification
- Non-Contact Voltage (NCV) function for safe AC voltage detection
- Clear LED & LCD display for wiring status and voltage readings
- Measures voltage between Live-Neutral and Neutral-Earth directly on the display
- Fault Trip Time: 99.9ms max, with 10-second buzzer alert on ELCB trip
- Automatic loop impedance testing to verify correct wiring
- LED indicators for wiring status:
  - Green – Good (Resistance < 1.8Ω)
  - Orange – Check (Resistance between 1.8Ω & 92Ω)
  - Red – Urgent Check (Resistance > 92Ω)

Function	Range
Voltage Indication	25 to 264V AC
RCD Test Voltage	230V AC
Frequency	50/60Hz
Trip Current Setting	10mA, 20mA, 30mA
Fault Trip Time	99.9ms max. Buzzer alert for 10 seconds when ELCB trips
Loop Impedance	Green - Good (Resistance <1.8Ω)
Wiring Indication	Orange - Check (Resistance Between 1.8Ω & 92Ω)
	Red - Urgent Check (Resistance >92Ω)
NCV	Bargraph display & Buzzer alert
Auto Power Off	5 Minutes (Approx)
Display	LED & LCD
Batteries	2x AAA
Dimensions	136 x 75 x 31mm
Weight	185g



Wiring Indication, RCD/ELCB, Loop & NCV



Magnet for Hands Free Testing



MT350L Optional Distribution Board Test Leads

## MT312 | RCD/ELCB, Loop & Polarity Tester

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MT26

## COMPACT MULTIMETER



The MT26 is a CAT III 600V True RMS compact multimeter offering measurements of AC and DC voltage, AC and DC current, frequency, capacitance, resistance and temperature. The meter has a large 4000 count backlit LCD with the added advantage of an analogue bar graph. The Low Z function has a low pass filter to eliminate errors caused by "Ghost" voltages. There is a built-in LED flashlight for dimly lit areas and a tilt stand. The Bluetooth function allows the user to transmit data to the Android or iOS mobile App for viewing, organising and sharing recordings. The meter has a double moulded rubber case with IP67 waterproof and dustproof rating.

### Features

- 4000 count with 41 Segment Barograph
- Measures AC and DC voltage up to 600V
- Temperature measurement from -18°C to 760°C
- Capacitance to 4000µF
- Frequency to 10MHz
- Duty Cycle
- Min, Max and Data Hold
- Auto Power Off
- LED Flashlight
- IP67 Dust & Waterproof

Function	Range	Accuracy
DC Voltage	400.0mV – 600V	±(1.0% +3)
DC Voltage LowZ	400.0mV – 400V	±(1.5% +3)
AC Voltage	4.000V – 600V	±(1.2% +5)
AC Voltage LowZ	4.000V – 400V	±(1.5% +5)
DC Current	4.000A – 10A	±(2.0% +3)
AC Current	4.000A – 10A	±(2.5% +3)
Resistance	400.0Ω – 40MΩ	±(1.5% +5)
Frequency	9.999Hz – 9.999MHz	±(1.0% +5)
Capacitance	40.00nF – 4000µF	±(3.0% +5)
Temperature	-18°C – 760°C	±(2.0% +5°C)
Duty Cycle	0.1% to 99.9%	±(1.2% +2)
Size	147 x 68 x 50mm	
Weight	318g	



MT25

## COMPACT MULTIMETER



The MT25 digital multimeter is a compact handheld tester that provides fast and accurate measurements, displayed on a large 4000 count backlit display with the added advantage of a 41 segment analogue bargraph. The MT25 has a double moulded rubber housing with IP67 waterproof and dustproof rating for safety and durability and has the IEC 61010-1 CAT III 600V safety rating. Multiple measuring functions include AC and DC voltage, AC and DC current, resistance, capacitance, frequency, temperature and duty cycle, plus a continuity and diode test range. The MT25 also offers the added convenience of a built-in LED flashlight for dimly lit areas and a tilt stand.

### Features

- 41 Segment Bargraph
- Measures AC and DC voltage up to 600V
- Temperature measurement from -20°C to 760°C
- 4 000 Count LCD display
- LED Flashlight
- IP67 Dust & Waterproof
- Capacitance to 4000µF
- LCD Back Light
- Min, Max & Data Hold
- Auto Power Off
- Auto Range and Manual Range Control
- Duty Cycle

Function	Range	Accuracy
DC Voltage	400.0mV - 600V	±(1.2% +2)
AC Voltage	4.000V - 600V	±(1.5% +10)
DC Current	4.000A - 10A	±(3.0% +5)
AC Current	4.000A - 10A	±(3.0% +5)
Duty Cycle	0.1 to 99.90%	±(1.2% +2)
Resistance	400.0Ω - 40.00MΩ	±(1.2% +5)
Frequency	9.999Hz - 9.999MHz	±(1.2% +2)
Capacitance	40.00nF - 4000µF	±(3.0% +5)
Temperature	-20 to 760°C	±(3.0%+5°C)
Size	147 x 68 x 50mm	
Weight	318g	



MT1883

## GENERAL PURPOSE MULTIMETER



The MT1883 is an average reading 2000 count manual range DMM and has a large backlit LCD display. The meter measures AC voltage up to 700V and DC voltage up to 1000V, fused AC and DC current up to 10 Amps, temperature measurement in °C or °F, resistance, frequency measurement and capacitance measurement, plus a diode test function and continuity buzzer. The meter measures AC voltage and current for the frequency range of 50Hz to 400Hz. The MT1883 is the first choice for electronic technicians and electricians, including students studying electronics.

### Features

- IP67 Dust & Waterproof with O-Ring sealed casing
- Manual Range
- Measures Frequency 1Hz to 2000KHz on Electronic and Electrical Circuits
- Temperature between -20°C to 760°C
- Capacitance to 200µF
- Measures ACV to 700V and DCV to 1000V, fused AC and DC current up to 10 Amps
- Measures Resistance up to 20MΩ
- 2000 Count LCD
- Full Ranges Protection
- Overmoulded rubber housing
- Integrated Test Lead Holder
- Backlight for dimly lit areas

Function	Range	Accuracy
DC Voltage	200mV - 1000V	±(0.5% +2)
AC Voltage	2.000V - 700V	±(1.0% +3)
DC Current	10A	±(1.5% +3)
AC Current	10A	±(2.5% +10)
Resistance	200.0Ω - 20.00MΩ	±(1.2% +2)
Temperature	-20°C to 760°C	±(3.0%+5)
Capacitance	2.000nF - 200.0µF	±(4.0% +3)
Frequency	2000Hz	±(1.5% +5)
Size	182 x 81 x 50mm	
Weight	375g	



## MT402 Non-contact AC Voltage Detector



The MT402 is ideal for checking the presence of voltage from 50V to 1000V. Suitable for outlets or against wire insulation testing, this non-contact AC Voltage Detector has a switch to turn the unit on and a Green LED indicates there is power and the batteries are ok. The Red LED and an audible sound indicates the presence of voltage. A great feature is the built-in flashlight.

### Features

- 50V - 1000V AC
- Easy to use just touch the tip to an outlet or cord, when it glows red the tip will indicate there is voltage in the line
- Audible green light that indicates voltage detection is on
- Detects voltage without metallic contact
- All outer surfaces are non-conductive for safety
- Built-in LED flashlight
- Pocket size

Function	Range
AC Voltage	50V - 1000V
Frequency	50/60Hz
Voltage Detector Visual	Red LED
Voltage Detector Audible	Continuous Beep
Power On Indicator	High Intensity Green LED
Size	158 x 21 x 25mm
Weight	34g



Glow Voltage Tip



Built in Flashlight



On and Off Switch



**MT402** | **Non-contact AC Voltage Detector**

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