



**MT310**

**230V ELCB Tester with  
Voltage Indication**



## Introduction

The Socket polarity and earth leakage tester tests 3-wire 230V AC outlets and earth leakage circuit breakers (ELCB).

The following symbols appear on the Socket polarity and earth leakage tester or in this manual.

Table 1. Symbols

	<b>Risk of electric shock</b>		<b>Earth</b>
	<b>Risk of Danger . Important information See manual</b>		<b>AC or DC</b>
	<b>Hazardous Voltage.</b>		<b>Conforms to EU directives.</b>
	<b>Equipment protected by double or reinforced Insulation</b>	<b>CAT III</b>	<b>OVERVOLTAGE(Installation) CATEGORY III,Pollution Degree 2 per IEC 1010-1 refers to the level of Impulse withstand Voltage protection provided.Equipment of OVERVOLTAGE CATEGORY III is equipment in fixed installations (e.g.,electricity meter and primary over-current protection equipment.)</b>

## Socket Polarity Test

1. Plug tester into 16A socket outlet.
2. Check neon lamps, if not correct rectify fault before continuing with next test.

## Voltage Indication

1. Plug tester into 16A socket outlet.
2. The LCD will indicate the AC Voltage
3. Voltage range from 150VAC to 245 VAC.

## ELCB Test

4. Turn rotary switch anti-clockwise to 10mA position.
5. Push and hold in the TEST button switch.
6. Turn rotary switch slowly unit trip occurs.
7. Make note of trip current rating.
8. Neutral/earth reversed not detected.

## Safety Information



**Caution identifies conditions and actions that may damage the MT310**

**Warning identifies conditions and actions that pose hazard to the user.**

To avoid possible electric shock or fire, read the following safety information carefully before using or servicing the instrument:

- Adhere to local and national safety codes.
- Individual protective equipment must be used to prevent shock and injury.
- Use of instrument in a manner not specified by the manufacturer may impair safety features/protection provided by the equipment.
- Avoid working alone.
- Inspect the test leads for damaged insulation or exposed metal. Check test lead continuity. Damage leads must be replaced. Do not use the Socket polarity and earth leakage tester if it looks damaged.
- Be careful when working above 30V AC RMS, 42V AC peak and 60V DC. Such voltages pose a shock hazard.
- Verify operation prior to measuring hazardous voltages (voltages above 30V AC RMS, 42V AC peak and 60V DC).

- Do not use the Socket polarity and earth leakage tester with any of the parts removed.
- Do not use the Socket polarity and earth leakage tester around explosive gas, vapor, or dust.
- Do not use the Socket polarity and earth leakage tester in a wet environment.

## Specifications

ELCB Trip Rating	10mA, 15mA, 20mA, 25mA, 30mA, 35mA
Operating Voltage	230V AC $\pm$ 10% 50/60Hz
Voltage Indication	From 150V AC to 245V AC
Power Supply	From Circuit under test
Operating Temperature	0°C to 40°C
Protection Level	CAT III 600V
Type of protection	IP40
Pollution Level	2x
Size	130 x 69 x 32mm
Weight	130g
Electrical Safety	IEC 61010/EN61010, IEC 61557-7/EN 61557-7

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## **MAJOR TECH (PTY) LTD**

**South Africa**

 [www.major-tech.com](http://www.major-tech.com)

 [sales@major-tech.com](mailto:sales@major-tech.com)

**Australia**

 [www.majortech.com.au](http://www.majortech.com.au)

 [info@majortech.com.au](mailto:info@majortech.com.au)

