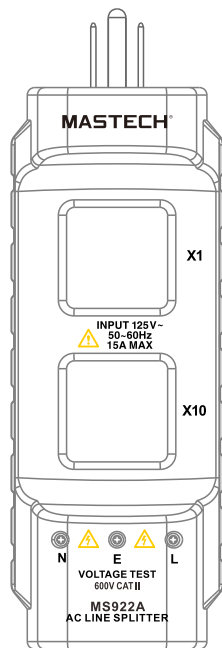


USER'S INSTRUCTION MANUAL AC LINE SPLITTER



MASTECH®

1. SAFETY INFORMATION

Users must read and follow all safety instructions before using this unit in order to prevent personal injury or damage to the unit.

1. Please check that there is no damage to the unit or insulation.
2. Input should not exceed more than AC 125V, 15A in order to avoid electrical shock or danger.
3. Don't open the back cover to avoid damaging the insulation.
4. Turn off power first before removing the test leads from the voltage test jacks.

2. GENERAL DESCRIPTION

This instrument is a special accessory for clamp meters which can be used to measure current conveniently without breaking the insulation on equipment's power line. It can also be used to test the equipment's working voltage using a multimeter. It's an essential tool for safely taking electrical measurements with little damage to the equipment under test. Its quality construction and easy to use design is built according to IEC61010 standards with an overvoltage category of CAT II 600V.

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3. FEATURES

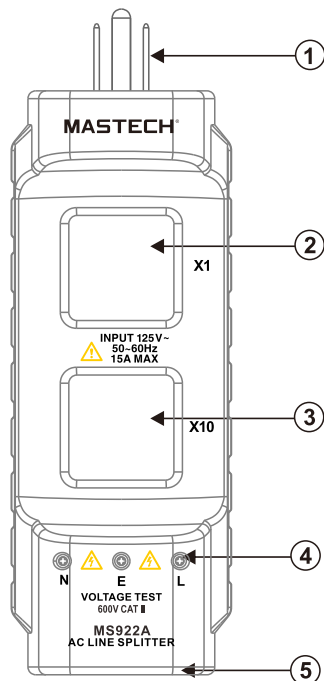
1. Safety standard conforms to IEC61010.
2. Maximum input: AC 125V, 15A.
3. Operating temperature: 0~40°C;
Humidity: ≤90%
4. Storage temperature: 10~50°C;
Humidity: ≤90%
5. Dimensions: 171x57x48 mm
6. Weight: approx. 130g
7. Accessories: user's manual

4. SAFETY SYMBOLS

	Important safety information: refer to the user's manual
	Dangerous voltage may be present
	Earth ground
	Live wire connection for voltage test
	Neutral wire connection for voltage test
	Conforms to UL STD. 61010-1,498A Certified to CSA STD C22.2 NO.61010-1,42

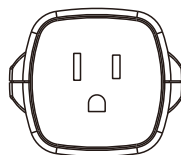
CAT II: MEASUREMENT CATEGORY II is applicable to test and measuring circuits connected directly to utilization points (socket outlets and similar points) of the low-voltage MAINS installation.

5. FRONT PANEL



5.1 Front panel description

1. Power plug:
This is a standard plug as shown below:



- ⚠ Overload protection: AC 125V, 15A
- 2. "X1" current terminal:
Tests actual working current.
- 3. "X10" current terminal:
Tests working current x10.
- 4. Voltage test input sockets:
Insert test leads to measure voltage.

5. Input socket:
⚠ Maximum input: AC 125V, 15A.
This socket is suitable for two standard plug configurations.
These configurations are shown in the figure below:



6. OPERATING INSTRUCTIONS

6.1 Current testing

- ⚠ Maximum input is: AC 125V, 15A.
- 1. Connect the power plug to an outlet.
- 2. Plug the device to be measured into the input socket.
- 3. Use a clamp meter and clamp the desired current terminal of the line splitter for measurement.

- ⚠ Each terminal of the splitter will give a different current reading:
X1 terminal for normal current load.
X10 terminal for 10 times the normal current load.

⚠ The error of clamp meter itself will influence the testing degree of accuracy.

6.2 Voltage testing

- 1. Connect the power plug to an outlet.
- 2. Plug the device to be measured into the input socket.
- 3. Connect the test leads of your multimeter to the voltage test sockets and put the meter in AC voltage mode to measure the voltage of the connected device.

6.3 Power testing

- 1. Connect the power plug to an outlet.
- 2. Plug the device to be measured into the input socket.
- 3. Connect the test leads of your multimeter to the voltage test sockets and put the meter in AC voltage mode to measure the voltage of the connected device.
- 4. Use a clamp meter and clamp the desired current terminal of the line splitter for measurement.
- 5. Calculate the power of the connected device using the following formula:
Power = voltage x current

