4.3 Measuring DC Voltage Levels

Measure the voltage by touching the test lead tips to the circuit where the value of voltage is expected. If the red test lead is on the positive terminal, the DC voltage will illuminate. If the red test lead is on the negative terminal, the DC voltage will not illuminate.

Read the voltage level from the DC voltage scale.

4.4 Measuring AC Voltage Levels

- Do not install substitute parts or make any modification to the instrument. For repair or re-calibration, return the instrument to your local distributor from where it was purchased.
- Verify proper operation on a known source before use or taking action as a result of the indication of the instrument.
- Use the proper personal protective equipment such as insulating gloves, insulating tools, and safety glasses.
- Use the horn switch to an appropriate position before starting measurement.
- Do not measure the instrument’s direct current, high temperature and humidity, or overloads.
- Attitude 2300V or less. Appropriate operating temperature is within 0°C and 32°C.
- This instrument is not dust and water proof. Keep away from dust and water.
- When the instrument will not be used for a longer period, place it in a storage after removing the battery.
- Cleaning: Use a cloth dipped in neutral detergent for cleaning the instrument. Do not use abrasives or solvents.

PRESS

Use appropriate personal protective equipment such as insulating gloves, insulating boots, and safety glasses.

Fig. 3

4.5 Non-contact AC Voltage Detector

To use, press button and place sensing tip on or near wire or device. If AC voltage greater than 50 VAC is present, light will glow and speaker will continuously chirp.

Fig. 5

4.6 Measuring DC Voltage Levels

Read the voltage by touching the test lead tips to the circuit where the value of voltage is expected. If the red test lead is on the positive terminal, the DC voltage will illuminate. If the red test lead is on the negative terminal, the DC voltage will not illuminate.

Read the value from the AC voltage scale. The polarity of the leads does not matter for AC voltage measurements.

2.0 SPECIFICATIONS

- DC Voltage: 6 – 220 Volts
- Contact AC Voltage: 24 – 600 Volts
- Non-Contact AC Voltage: 50 – 600 Volts
- AC voltage Frequency: 50 – 60 Hz
- Operating Temperature: 14°F – 140°F (-10°C to 60°C)
- Humidity: 90% or less of displayed value
- Batteries: (3) three AAA

1.0 METER FUNCTIONS

1. Non-contact AC sensor
2. DC Voltage indicator
3. DC Voltage Scale
4. Non-contact AC indicator
5. Non-contact AC button
6. AC voltage indicator
7. AC Voltage Scale
8. Continuity indicator
9. Battery compartment screw
10. Battery compartment
t11. Magnets
12. Test Probe Storage Area

2.0 Read First: Important Safety Information

This tester is intended to provide basic information regarding this tester and to describe the general test procedure. It is not intended to be used to test hazardous conditions. Those who wish to use this test lead, must be aware of the proper test procedure and other potential hazards. The user must read and understand the safety summary and other sections before using this tester. Please read the manual thoroughly before using this tester.

SAFETY WARNINGS

This instrument has been designed, manufactured and tested according to IEC61010: Safety requirements for Electronic Measuring apparatus, and delivered in the best condition after testing. This instrument manual contains warnings and safety rules which must be observed by the user to ensure safe operation of the instrument and retain its original condition. Therefore, read through these operating instructions before using the instrument.

WARNIN

2. Understand and follow all the safety instructions contained in the manual.
3. It is essential that the above instructions are adhered to.
4. Failure to follow the above instructions may cause personal injury.

This instrument is to be used only in its intended applications.

In the event of malfunctioning, please return the instrument to your local distributor from where it was purchased.

4.6 Non-contact AC Button
5. AC Voltage Indicator
6. AC Voltage Scale
7. Continuity Indicator
8. Battery Compartment Screw
9. Battery Compartment
10. Magnets
11. Test Probe Storage Area

4.1 Automatic Operation

When using the test leads, the tester will automatically activate when connected to AC or DC voltage, or when continuity is made. The tester will automatically select the proper function.

4.2 Testing Continuity

Touch the tip of the test leads to the points where tests need to be made. If the resistance is below 50 ohms, the beeper will sound and the continuity light will illuminate. Fig. 1

4.3 Measuring AC Voltage Levels

Measure the voltage by touching the test lead tips to the circuit where the value of voltage is expected. If the red test lead is on the positive terminal, the AC voltage will illuminate. If the red test lead is on the negative terminal, the AC voltage will not illuminate.

Read the value from the AC voltage scale. The value of the leads does not matter for AC voltage measurements.