

## User's Guide

### 16B - Voltage Detector (contact mode)

This User Guide covers information on safety and cautions, read and understand all of the instructions and safety information before operating this device.

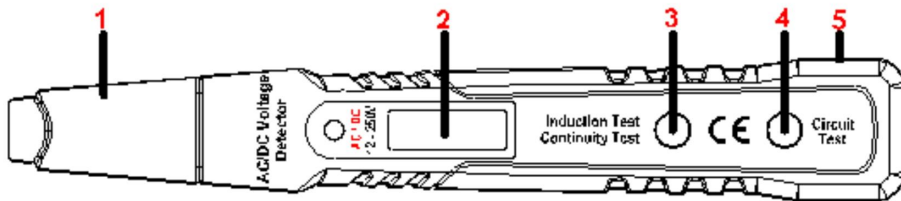
16B is designed to check for the presence of voltage, circuit test, high voltage indication, signaling the user with a flashing red LED, as well as LCD display the voltage readings. The flathead screwdriver probe tip provides more convenient usages.

## 1. SAFETY

### WARNINGS:

- Read, understand and follow the safety rules and operating instructions contained in this user's guide. Fatal or serious injury can result from improper use.
- Risk of electric shock or burns leading to fatal or serious injury can result from contact with live circuits.
- Voltage above 30VAC can present a shock hazard.
- Do not operate this device if it appears damaged or if it is malfunctioning in any way.
- Do not measure voltages higher than the stated limit (220VAC) as marked on the tester.
- Test this device on a known live circuit (within the rated voltage limit) to verify proper operation before examining other circuits.
- Differences in socket design and insulation thickness / type can generate misleading results when measuring shielded wiring and cables.
- Always observe local electrical codes and safety requirements.

## 2. DESCRIPTION



- 1) Probe Tip - contact with the conductor of test, if the red LED flash, means the conductor with the voltage and LCD display the values of interval voltage range.
- 2) LCD Display - Hold the test buttons and contact the conductor of test, the LCD displays the values of interval voltage range.
- 3) Induction/Continuity Test - Press this button and contact the conductor of test, if LCD display ⚡ for conductor with voltage.
- 4) Circuit Test - Press this button to perform circuit test and LCD display values of interval

voltage range of conductor under test.

- 5) Battery Cover - Use the screwdriver to release the screw of battery cover to replace the batteries.

## 3. SPECIFICATIONS

Voltage Sensitivity: 12V to 36V (Battery Voltage)

12V to 250V (AC Voltage)

Frequency: 50/60Hz

LCD: Display voltage value

Indicators : LED (red)

Probe Tip: Flathead Screwdriver function

Operating Temperature: 0°C to 40°C (32°F to 104°F)

Relative Humidity: <80%

Battery: 2 x AG3 1.5V batteries

Dimensions: 141 x 22mm

Weight: 26g

## 4. OPERATION

- 1) AC Voltage Measurement - Press the circuit test button momentarily, the red LED will flash quickly and the values of interval voltage will display in LCD.
- 2) Battery Voltage Measurement - Press the circuit test button and contact the probe tip to the negative part of battery, hand with positive of battery, the red LED will flash and the values of battery interval voltage will display in LCD.
- 3) Circuit Test - Press the circuit test button and contact the probe tip to one part of DUT (device under test), hand with another part of DUT, the red LED will flash and LCD display blank for circuit of DUT is in good condition.

### NOTE:

- The LCD display the value of interval voltage, if display 55V, means the approx. voltage value of test, not for accurate voltage value.
- The induction/continuity test is normally influenced by surroundings, the test result is only for reference.
- Battery test is only for measure lower 36VDC, not allowed higher voltage test.

## 5. BATTERY INSTALLATION & MAINTENANCE

- 1) Remove the end cap by screwdriver and gently release the battery cover.
- 2) Insert two AG3 1.5V batteries (observe polarity).
- 3) Put the battery cover back in place, secure with the screws
- 4) Periodically wipe the case with a dry cloth, do not use the abrasives or solvents.
- 5) If the tester is not to be used for a period, remove the battery and store it separately.