

INSULATION RESISTANCE TESTER

Make/Model : KEW 3127

Purpose: Measure insulation resistance up to 10 TΩ

PRECAUTIONS

1. Make sure to set the range switch to the appropriate position (500 V, 1000 V, 2500 V, 5000 V) before conducting the measurement.
2. Take caution while PRESS TO TEST button is being pressed as high voltage is present at the tip of the leads continuously.
3. Ensure that the range selector is in the OFF position after use and then remove the leads.
4. Check that the indication on the voltage monitor is 0 V after the PRESS TO TEST button is released to ensure that any charge existing on the circuit under test is discharged.

STANDARD OPERATING PROCEDURE

1. Check the voltage that can be applied to the device under test and choose the range selector position accordingly. Also, choose the test time using the TIME SET option.
2. Press the MODE button and select the appropriate mode of measurement from IR (Insulation Resistance), SV (Step Voltage), DD (Dielectric Discharge) or RAMP.
3. Connect the earth cord (black) to the earth terminal, line probe (red) to the line terminal and guard cord (green) to the guard terminal of the device under test.
4. Press the PRESS TO TEST button.
5. Measurement will end automatically at the set time. Note down the insulation resistance values displayed on the monitor.
6. Instrument is supported with Auto-discharge function. Keep the test probes connected and release the PRESS TO TEST button once the measurement is over. Confirm that the monitor shows 0 V.
7. Either BREAK DOWN or BURN (for destructive testing) mode can be enabled for each measurement according to the test requirement.
8. Measured data can be saved using the MEMORY option. Press the MEMORY button and select either MEMORY or LOGGING option.

COMMUNICATION FUNCTION/SOFTWARE

The instrument supports two modes of communication:

1. Bluetooth
2. MODEL8212USB
 1. Long press the ENTER button and power on the instrument.
 2. LCD will display 'BT on'. Use UP/DOWN button to select the desirable communication method and press ENTER (bt on – Bluetooth, bt off – MODEL8212USB).

3. KEW Smart 3127 mobile application installed on smart phone can be connected via bluetooth to view the variations of resistance, current and voltage with respect to time.
4. Install KEW Windows software for KEW3127 on the PC and connect it to the instrument using MODEL 8212 USB via the USB port.