



New Look for KYORITSU Professional Safety Tester 2001

INSULATION/CONTINUITY



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KEW INSULATION/CONTINUITY TESTER

The Model 3132A is a highly compact and easy to use insulation and continuity tester. Designed to strict IEC61010-1 safety standards, it has an IP protection rating of IP54 and is ideally suited to more arduous environments. The instrument offers 3 insulation test ranges, a 3 Ω continuity range and a 500 Ω resistance range.



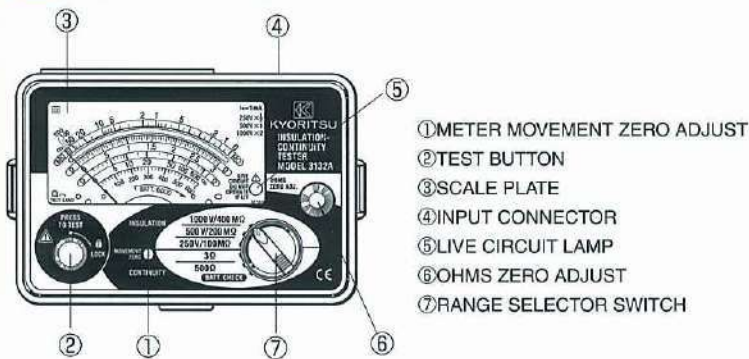
Selection Guide

| MODEL | 3131A | 3132A |
|---------------------------------|-------|-------|
| 3 range insulation test voltage | ● | ● |
| 200mA continuity | ● | ● |
| Live circuit warning | ● | ● |
| AC Voltage range | | ● |
| Illuminated scale | ● | |
| Automatic discharge | ● | ● |
| IP54 rated | ● | ● |

Features

- Dust and drip proof construction. (designed to IEC 60529 IP54)
- Designed to meet IEC61010-1 and IEC61557 safety standard.
- 1mA rated test current at the minimum resistance.
- 200mA measuring current on continuity testing.
- Automatic discharge of circuit capacitance. (Any charge stored in the circuit under test will be automatically discharged after testing.)
- Live circuit warning buzzer and neon lamp.
- Small and lightweight. Shock resistant new case material.
- AC voltmeter with liner, easy-to-read scale.
- Operates on AA, R6P \times 6 dry batteries.

Layout Diagram



Accessory Test Leads MODEL 7122



Why insulation test is necessary?

All live conductors of electrical appliances and installations must be insulated to prevent electric shock hazards from inadvertent contact, fire hazards from short circuit and equipment damage. In addition, a low insulation resistance in installation will result in a leakage current, and hence causes a waste of energy which would increase the running costs of the installation.

Insulation resistance must be checked by applying appliances or installation a higher voltage than its normal working voltage, because an insulation resistance is lower at higher voltage than at lower voltage. KYORITSU's insulation resistance testers provide measurement at high levels of test voltages.

Periodical test is also important to ensure that insulation of installations or appliances is not deteriorating. Foreign matter and mechanical factors like wear or breakage may reduce insulation resistance. Regular tests and data logs can detect possible fault in insulation.

Minimum value of insulation resistance by IEC60364-6-61 TABLE 61A

| Nominal circuit voltage (V) | Test voltage V DC | Insulation resistance (Mohms) |
|--|-------------------|-------------------------------|
| SELV and functional extra-low voltage, when the circuit is supplied from a safety isolating transformer (SELV: Safety Extra-Low Voltage) | 250 | ≥ 0.25 |
| Up to and including 500V with the exception of the above cases | 500 | ≥ 0.5 |
| Above 500V | 1000 | ≥ 1.0 |



Safety Warnings

Please read the "Safety Warnings" in the instruction manual supplied with the instrument thoroughly and completely for correct use. Failure to follow the safety rules can cause fire, trouble, electrical shock, etc. Therefore, make sure to operate the instrument on a correct power supply and voltage rating marked on each instrument.

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