

# Insulation Resistance Tester

## General information about AD-4005A Insulation Resistance Tester

### Application:

This device can test insulation resistance (such as transformer, switchgear, lead, motor) of different modules in one system, to insulate and repair failure components.

It is important to ensure products quality and security of person and equipments during operation by insulation test of checking test object to ground or adjacent conductors insulation.

Before power on the system, using insulation test to verify if it is good to improve system performance. Insulation test is to find manufacturing process problems and equipment fault which can not be found before failure happened. In EU, this test is compulsory, even to civil system.

### Features:

- ✓ With strong anti-interference ability.
- ✓ Short-circuit current of test power is from 5-15mA, suitable for big capacity and big inductance test.
- ✓ Broad testing range of resistance, from  $0.5M\Omega$ - $200G\Omega$ , more accurate reading and high resolution.
- ✓ The voltage can be also adjusted from 0V to required voltage.
- ✓ With timing function, convenient for recording absorption ratio and polarization index.



## Technical Specifications:

- Test Voltage: 0.25kV, 0.5kV, 1kV, 2.5kV, 5kV(the voltage can also be adjusted from 0 to required value)
- Accuracy:± (5%+10V)
- Short-circuit current: >8m
- Range and accuracy:

## Technical specification of the device:

| Range | Effective measurement range of resistance | Accuracy       |
|-------|---|----------------|
| 20MΩ  | 0.5 ~ 19.99 MΩ                            | ±(5%+5digit)   |
| 200MΩ | 5.0 ~ 199.9 MΩ                            | ±(5%+5digit)   |
| 2GΩ   | 0.05 ~ 1.999 GΩ                           | ±(5%+5digit)   |
| 20GΩ  | 0.5 ~ 19.99 GΩ                            | ±(5%+5digit)   |
| 200GΩ | 5.0 ~ 199.9 GΩ                            | ±(10%+10digit) |

- Anti-electric field interference: 2mA(50/60Hz)
- Timing and alarm function: max.display value of timer is 19mins 59secs. It will alarm when the tested resistance is lower than lower limit range.
- Display: 3 1/2Digit LCD meters, to show test voltage, resistance and time.
- Power supply: Built-in rechargeable battery 1.2V/2000mAh, 10pcs, total DC 12V, Or external power supply AC 220V, 50/60Hz.
- Environmental temperature: 0-40°C, relative humidity: 20-90%
- Dimension: 315\*240\*155mm, weight 5kg.

