

# insulation resistance tester

## General information about AD4006B intelligent insulation resistance tester

AD4006B intelligent insulation resistance tester is newly designed based on AD4006B. It can conduct digital insulation test, and its highest testing voltage can be up to 10kv. It is widely applied for the maintenance of substation and power station. AD4006B is suitable to measure IR (insulation resistance), AR (absorption ratio) and PI (polarity index) of various HV equipment, such as switchgear, transformer, reactor, capacitor, generator and cable.

### Features:

- ✓ Adopt digital process technology, with strong anti-interference ability and can do measurement under strong electromagnetic interference condition. Large volume, can meet the requirements of HV, high resistance and big load testing.
- ✓ With quake-proof, damp-proof and dust-proof structure, can adjust to bad working condition.
- ✓ Friendly and beautiful interface, testing results and data variation trend can be displayed accurately.
- ✓ Perfect protection functions, can withstand short circuit and the surge of tested capacitor residual voltage.



## Other feature:

- Max. measuring range can be up to 10T $\Omega$ , and range can be converted automatically.
- HV at each gear is adjustable from zero continuously.
- Measure R15,R60,R600,and calculate absorption ratio & polarity index automatically Measure environment temperature, air humidity and time automatically
- Display testing time, buzz every 15s, and will prompt to turn off without operation for 5mins.
- After testing, it can leak HV automatically, and leakage time is less than 30S  
Store 60 sets of testing results, and data can be kept for 20 years.
- With RS232 serial interface, can communicate with computer.

## Technical Specification of the device:

- Rated testing voltage:GD3126B (10KV):50V,100V,250 V,500V,1.0Kv, 2.5Kv, 5.0kv, 10.0Kv
- Error of output voltage: $\pm 5\%$
- Resistance measuring range:Higher limit: 100G $\Omega$  ~ 10T $\Omega$ :Lower limit: 0.1M $\Omega$
- Accuracy level:5.0 level
- HV display error: $\pm( 5\% \cdot U_x + 1d )$
- Error of temperature measurement: $\pm 0.5^\circ\text{C}$
- Measurement error of air humidity: $\pm 2\% \text{RH}$
- Short circuit current:about 6Ma
- Voltage ripple: $< 3\%$
- Insulation resistance: $> 500 \text{ M}\Omega$  (between testing lead and main case)
- Withstand voltage:AC10.0kV 50Hz 1min (between testing lead and main case)
- Power supply:14.8V lithium battery
- Service hour after charging:Service hour: 30 days, 10 times DAR test and 5 times PI test can be conducted every day.
- Working temperature and humidity: $0^\circ\text{C} \sim + 40^\circ\text{C} < 85\% \text{RH}$
- Storage temperature and humidity: $- 20^\circ\text{C} \sim + 50^\circ\text{C} < 90\% \text{RH}$
- Dimension(mm):325 ( L )  $\times$  250 ( W )  $\times$  130 ( H )
- Weight:About 3.7kg

