



● Features

- I We use precision instruments dedicated silver contact switch, which has a small contact stress, contact resistance and its small variation and long service life, etc.
- II There is no zero indicating value at the end of the resistor plate, the starting resistance of the resistor is 00.1Ω , it can guarantee the accuracy without deducting the zero resistance when using.
- III Resistance element is winding with high quality wire, through strict process and sophisticated for a long time, has the characteristics of high accuracy, good stability.

● Applications

ZX25A rotary type resistance box is a lab type more value resistor which is made up of by six decimal switches in series, Resistance element connect on every contact of the switch, to get resistance value through changing the switch brush position, widely used in factories, mines and enterprises, school and used as measurement of electricity and other experiments for factory and R&D institution, and also be used for precise adjusting the resistance value in the DC circuit. And the machine can check the DC bridge and resistance measurement meter of 1 grade.

● Applications And Ratings

| | Reference ranges | Nominal range | Ultimate range |
|-----------------|------------------|---------------|----------------|
| Power | 0.05W | 0.1W | 0.2W |
| Temperature(°C) | 20+0.5 | 10—30 | / |
| Humidity | 40%-60% | 25%-80% | / |

| | | | | | | |
|------------------------|---------|--------|--------|-------|--------|---------|
| Step panel(Ω) | 10×1000 | 10×100 | 10×10 | 10×1 | 10×0.1 | 10×0.01 |
| Tolerance | ±0.02% | ±0.02% | ±0.05% | ±0.2% | ±1% | ±5% |
| Test current (0.1W) | 10mA | 30mA | 100mA | 300mA | 1A | 3A |

1. Adjustable range: $0.01\Omega \sim 11111.11\Omega$
2. The residual resistance of the resistance box: $R_0 = 20m\Omega \pm 10m\Omega$.
Allowed variation:
3. 1) Variation caused by temperature: Under the reference condition of relative humidity and power, temp is beyond the reference range, but under the nominal condition, Variation caused by temp should not be less than a corresponding grade index.
2) Variation caused by relative humidity: Under the reference condition of temp and power, relative humidity is beyond the reference range, but under the nominal condition, Variation caused by humidity should not be less than a corresponding grade index.
3) Variation caused by power: Under the reference condition of temp and relative humidity, power is beyond the reference range, but under the nominal condition, Variation caused by power should not be less than a corresponding grade index.
4. Insulation resistance: Under the nominal condition, the insulation resistance between the circuit and the case should be equal or more than $500M\Omega$ (Test voltage: 500V).
5. Voltage test: Under the nominal condition, the circuit between the metal shell of the resistance box can pass the experiment of frequency of 45~65Hz and the actual sine wave ac voltage 2000V/1min without breakdown and there is no flashover.
6. Size: 314mm×276mm×167mm, weight: 4.5Kg

● Notice

1. Before using, you should turn the knob from the starting point to end point several times, make the contact of the switch connect well.
2. Resistor leads out from two terminal lead, each terminal has two knobs. High resistance can be used two wire leads. Low resistance must adopt four wire leads, in order to ensure the accuracy of the resistance.
3. Use power or test current: resistor had better not exceed rated power, when using, the test current is within the table data. Extreme power can only be inside the short time (such as 2 ~ 3 seconds), otherwise it will cause permanent damage.
4. Product should be in store in the environment of 5—35°C, relative humidity less than 75%, Indoor air should not contain corrosive gas and harmful substances, should not be direct sunlight.

● Ordering Information

Example:

| | | | |
|-------------|-------|------------|-------------------------|
| ZX25A | 01 | 10R00 | F |
| (1) | (2) | (3) | (4) |
| Series Name | Power | Resistance | Resistance Tolerance |

(1)Series Name:ZX25A

(2)Power:005=0.05W,01=0.1W

(3)Resistance:0R100=0.1Ω,0R220=0.22Ω,10R00=10Ω,1M000=1MΩ

(4)Resistance Tolerance: B(±0.1%),D(±0.5%),F(±1.0%),G=±2%,J=±5%