

# TH0240 Standard Resistance Multiplexer



## 1. Summary

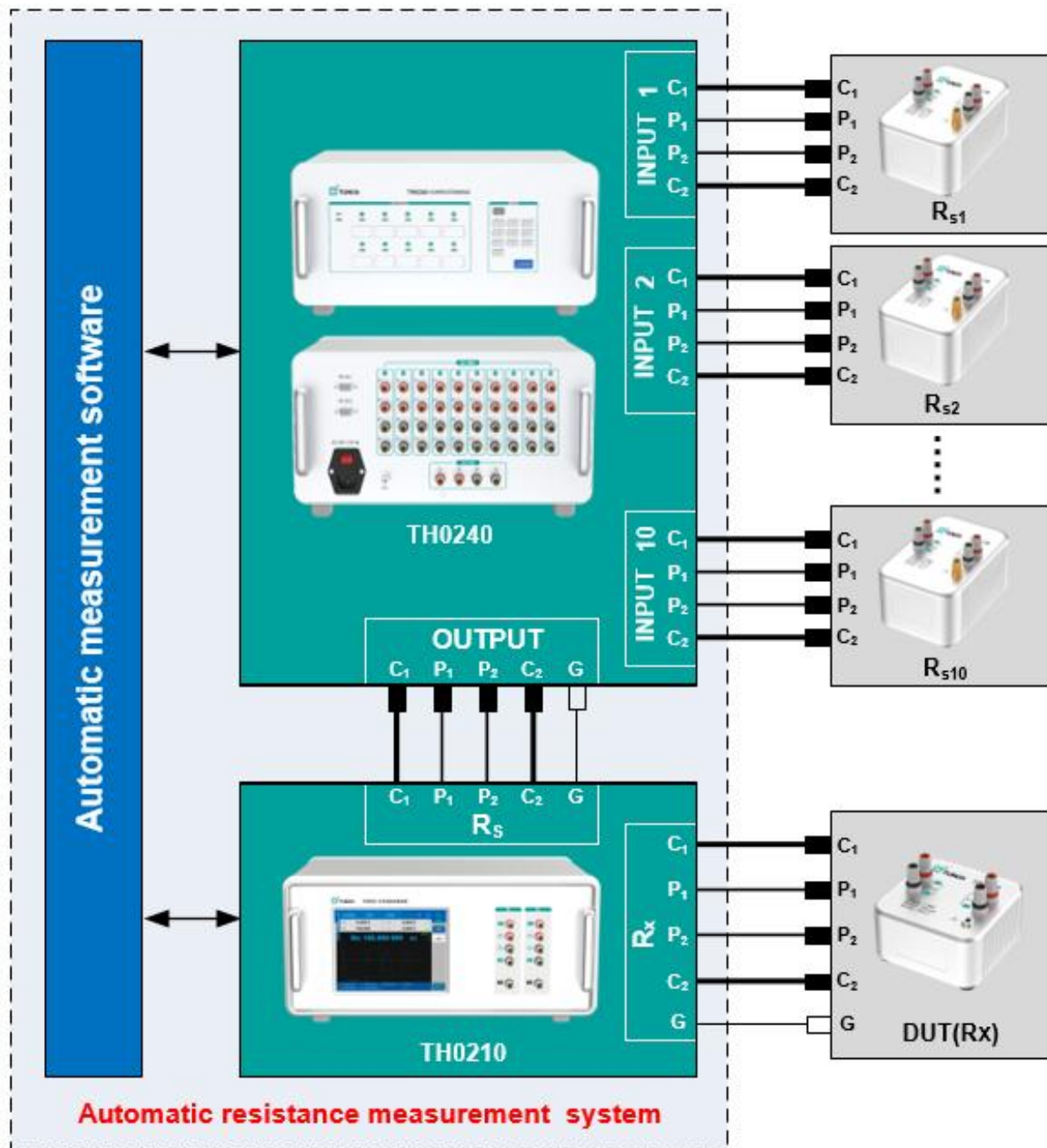
TH0240 is a precise resistance channel-switch device, integrates ultra sensitive, high efficiency, polarized sealed relay, which can eliminate the self-heating effect in the relay. TH0240 improves the efficiency by eliminating the need to continually change leads when measuring groups of resistors.

## 2. Features

- 10 four terminal channels.
- Sealed Relays with 3 A carrying capacity.
- Copper tellurium terminal.
- Insulation resistance >  $10^{12} \Omega$ .
- The LED indicator on front panel is convenient for observing the selected channel.
- Front Panel or RS232 interface.

### 3. Application

☆ Establish automatic resistance measurement system



- Multiple (up to 10) standard resistors.
- The channel of reference standard resistance can be automatically switched according to the value of measured resistance.

#### 4. Specifications

|                                       |                             |
|---------------------------------------|-----------------------------|
| <b>Wiring</b>                         | Four terminal               |
| <b>Terminal type</b>                  | Tellurium copper            |
| <b>Input channel</b>                  | 10 channels (rear panel)    |
| <b>Output channel</b>                 | Single channel (rear panel) |
| <b>Thermal EMF's</b>                  | < 50 nV                     |
| <b>Error contribution</b>             | < 20 nV                     |
| <b>Max carrying/switching current</b> | 3 A @ 30 V (DC)             |
| <b>Contact resistance</b>             | < 0.05 Ω                    |
| <b>Communication interface</b>        | RS232                       |

#### 5. General Specifications

|                                |  |
|--------------------------------|--|
| <b>Power supply</b>            | AC ( 220 ± 22 )V,( 50 ± 2 ) Hz   |
| <b>Warm up time</b>            | ≥ 30 min   |
| <b>Temperature performance</b> | Operating temperature: (23 ± 5) °C ~ 45 °C;<br>Storage temperature: 0 °C ~ 40°C                          |
| <b>Humidity performance</b>    | Operating humidity: ( 20% ~ 85% ) R·H, No condensation;<br>Storage humidity: < 95% R·H, No condensation; |
| <b>Communication interface</b> | RS232  |
| <b>Weight</b>                  | About 6.5 kg   |
| <b>Dimensions</b>              | 380 mm(W)X 260 mm(D)X 200 mm(H)  |