

WBR52YT5 Resistance Input Transmitter (One in and one out)

Characteristic

- One channel resistance value input, isolated and transmitted, one channel output DC current voltage.
- Cooperate with control systems such as DCS/PLC or other unit combination me applications.
- Connect to the control system: The AI card of each DCS/PLC receives current or voltage signals.
- Field devices for connection: two-wire or three-wire resistors.
- Installation and terminal wiring: 35mm standard DIN rail card mounting; terminal wiring is reed type compression connection.



Summary

Resistance Input Transmitter

The resistance value of the on-site two-wire or three-wire resistor is isolated and converted, and converted into a DC signal linearly related to the input and output to the control system or other smart meter.

The resistance input transmitter is powered by a separate DC power supply, and the power supply-input-output is electromagnetically isolated.

Technical parameters

- Power supply
- Power supply voltage: 20 ~ 30VDC
- Power indicator: LED power light is green when power is on
- Current consumption (at 24VDC supply): < 25mA

- Input
- Input resistor type: 2-wire or 3-wire resistor
- Resistance range: 0 ~ 10K Ω
- (Special resistance potentiometer, user specified when ordering)
- Output
- Output current: 4 ~ 20mA; 0 ~ 20mA; or specified current range
- Allowable load for current output: 0 to 550 Ω (4 to 20 mA, 0 to 20 mA output)
- Output voltage: 1 ~ 5V; 0 ~ 5V; 0 ~ 10V; or specified voltage range
- Voltage output impedance: <500 Ω
- Output ripple: <10mVp-p
- Comprehensive main technical parameters
- Standard accuracy: $\pm 0.2\%$
- Temperature drift: $\pm 0.015\% / ^\circ\text{C}$
- Boot response time: < 1s (10 ~ 90%)
- Power supply variation: $\pm 0.1\%$ (20~30VDC allowable voltage range)
- Isolation capability: input-output-power supply 1.5KV, 1min, 50Hz
- Insulation resistance: between input-output and power supply $\geq 100\text{M}\Omega / 500\text{VDC}$
- Working environment temperature: -20~+60 $^\circ\text{C}$
- Dimensions: thickness $\times$ height $\times$ length = 16 $\times$ 116 $\times$ 110 (mm)

Terminal wiring

