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ST01 Intelligent Temperature Transmitter Module

Features

- Reliable performance, easy application
- high precision measurement
- long service life and stability



Introduction

The intelligent temperature transmitter is a high performance product, compatible with 8 types of thermocouple and resistance signal transmission. Using 24 Σ - delta sampling chip, ensures high precision measurement; Anti-surge and anti-reverse connection. Adopt enhanced software security design, including independent watchdog, low-voltage monitoring reset, multi-task scheduling optimization and other functions. All imported components are used to ensure long service life and stability. Can use computer or mobile phone configuration Settings, convenient and fast.

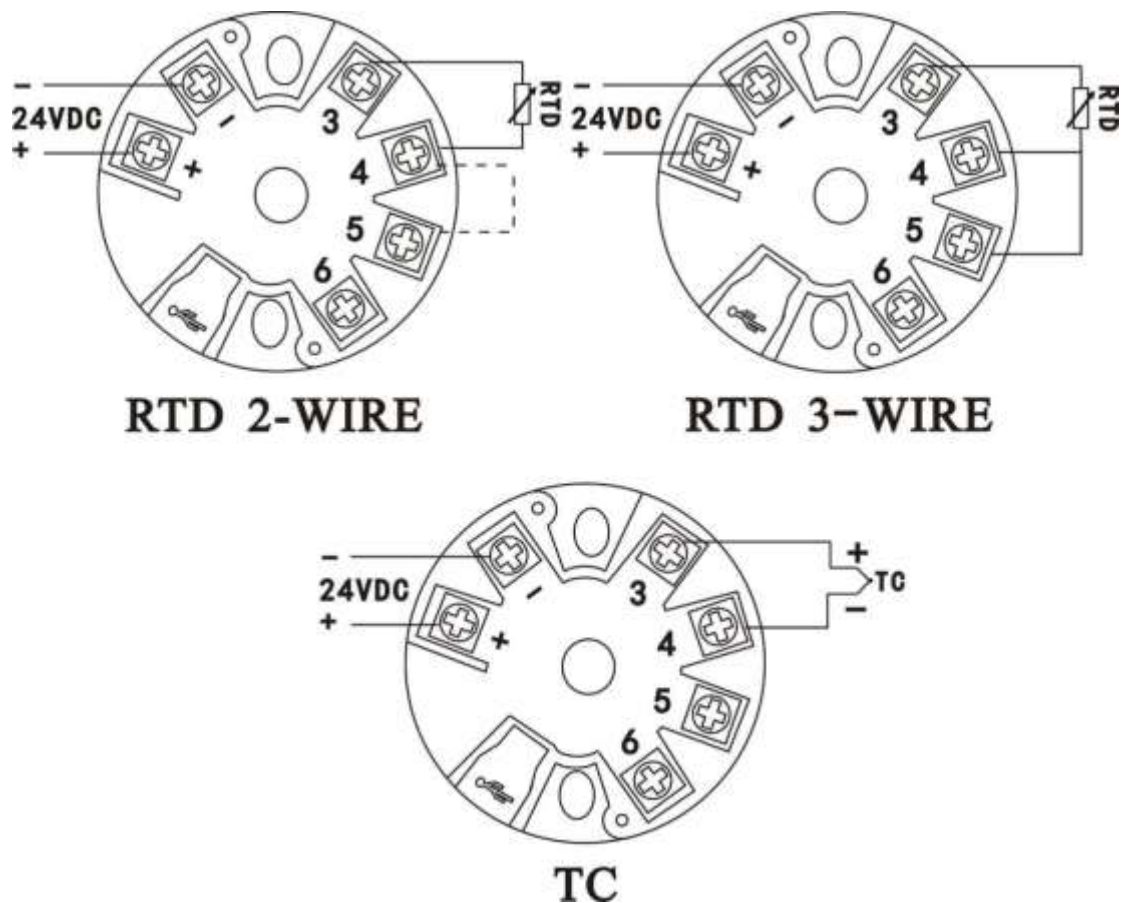
Specification

- Power: 12 - 35VDC
- Output : 2-WIRE 4 - 20mA
- Precision : RTD 0.1%; TC 0.2%
- Current Limit 20.8mA
- Excitation 0.2mA.
- Sensor RTD TC
- Load $\leq 500\Omega$
- Stock Temperature -40 - 120°C
- Drift $\leq 25\text{ppm}/^\circ\text{C}$ F.S
- Shell Material PA66
- Working Temperature -30 - 80°C
- Mounting Screw M4*2

Sensor List

Type	Model	Range
RTD	Pt100	-200-850°C
	Cu50	-50-200°C
	Cu100	-50-200°C
TC	B	0-1800°C
	E	0-1000°C
	J	0-1200°C
	K	0-1300°C
	N	-200-1100°C
	R	0-1700°C
	S	0-1700°C
	T	-200-400°C

Connection mode



1. Terminal 1 and terminal 2 are 24V power supply positive and negative respectively, and the circuit board has anti-reverse protection.
2. The RTD connection supports two - wire system and three - wire system. The connection mode is as shown in the figure above. The solid wire is the lead wire of the sensor, and the dotted wire is the short wire, which requires the user to connect with the short wire by himself (the factory can also connect the short wire internally according to the customer's needs).
3. The positive pole of thermocouple is connected to the no. 3 terminal, and the negative pole is connected to the no. 4 terminal.