

## CS-TS

## Air source heat pump temperature sensor



### Description

The CS-TS temperature sensor, which employs an NTC (Negative Temperature Coefficient) thermistor as its sensitive element, is a pivotal component for monitoring and controlling the temperature within air-source heat pump systems. It is designed to collect real-time temperature data from key components of the heat pump system, including the evaporator, condenser, compressor, fan coil, as well as the ambient temperature, thereby ensuring the system operates safely, efficiently, and stably. Characterized by high precision, rapid response, and low cost, the CS-TS temperature sensor stands as an ideal choice for temperature monitoring in heat pump systems.

### Features

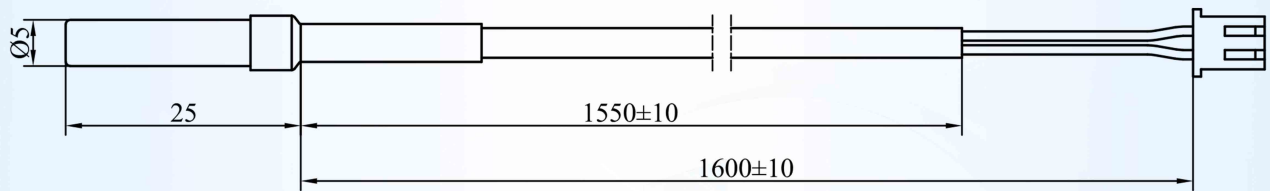
- ✓ High Accuracy
- ✓ Low Power Consumption
- ✓ Excellent Stability
- ✓ Fast Response
- ✓ Cost-Effective and Easy to Install

## Applications

- Evaporator Temperature Monitoring: Prevents frost formation or overheating.
- Condenser Temperature Monitoring: Ensures efficient heat exchange in the condenser.
- Compressor Discharge Temperature Monitoring: Protects the compressor from overheating.
- Evaporator Temperature Monitoring: Prevents frost formation or overheating.
- Fan Coil Temperature Monitoring: Regulates fan speed and monitors coil temperature.



## Structure and Dimension (mm)



## Performance Specifications

**Sensor type** NTC R25=5K $\Omega$ ±1%

**B value** B25/50=3470K±1%

**Zero power resistance** R25=5K $\Omega$ ±1%

**Immersion tube material** Copper

**Operating Temperature** -30°C~80°C (-22°F~176°F)

**Operating humidity** 0%~95% RH(Non-condensing)


**Dissipation coefficient** 0.9 MW /°C (30.42 MW /°F)

**Maximum rated power**  $\geq 100\text{mW}@50\text{VDC}$

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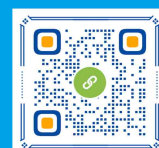
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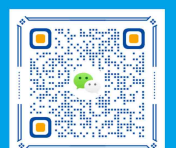
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