Temperature sensors

NTC Temperature Sensor, Heat Pump, Copper Immersion Tube

Model CS-TS

NTC temperature sensor for air-source heat pumps, R25=5KΩ±1% with B25/50=3470K±1%, in a ϕ5×25 copper immersion tube with IP67 protection.



Protection
IP67

Features

- Single-ended glass-encapsulated NTC element
- Copper immersion tube ϕ5×25
- XH-2Y (Blue) electrical connection
- Operating temperature -30°C ~ 80°C
- Fast response, low power consumption

Applications

Evaporator temperature monitoring, Condenser temperature monitoring, Compressor discharge monitoring, Fan coil temperature monitoring, Ambient temperature compensation

Specifications

Performance

Sensor type	NTC R25=5KΩ±1%
Zero power resistance	R25=5KΩ±1%
B value	B25/50=3470K±1%
Dissipation coefficient	0.9 mW /°C
Maximum rated power	35mW

Mechanical

Sensitive element encapsulation	Single-ended Glass Encapsulation
IP rating	IP67
Immersion tube material	Copper
Immersion tube dimensions	ϕ5×25
Electrical connection	XH-2Y (Blue)

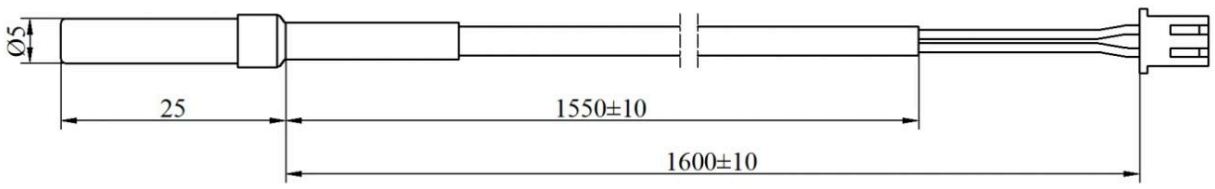
Environmental	
Operating temperature	-30°C ~ 80°C
Storage temperature	-40°C ~ 80°C
Storage humidity	0% ~ 95% RH (non-condensing)
Operating humidity	0% ~ 95% RH (non-condensing)
Random vibration	10g, 5–2000Hz
Shock	X/Y/Z, 20g, half-sine 11ms
Drop (any axis)	1m
Electrical	
Insulate resistance	≥100MΩ@50VDC

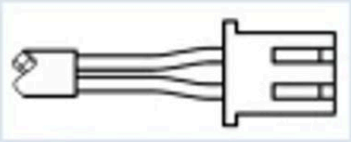
Ordering and support

Pricing, samples, lead time and custom versions: dwinsales@163.com, +86 181 0280 8901.

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Dimensions and wiring



XH-2Y	PIN	Color of Wire
	PIN1	Red
	PIN2	Black

Drawings are for reference. Dimensions in millimetres unless stated.