

Air Conditioner Temperature Sensor

This temperature sensor features special waterproof packaging for moisture protection. It has strong thermal stability of resistance and a time constant of 5-20s.



ADDITIONAL IMAGES



Product Overview

High-Precision NTC Temperature Sensor

These professional-grade NTC temperature sensors are engineered for optimal climate control in air conditioning, electric water heaters, and air energy systems. Featuring a specialized waterproof and moisture-proof package, they provide excellent thermal stability and reliable operation in demanding indoor and outdoor environments. With a rapid response time and a versatile operating range, these sensors ensure high efficiency and accurate monitoring for coils, compressors, and water tanks.

Performance Specifications

Time Constant	12.5 s
Operating Temperature Range	-40°C to +150°C
Key Features	Waterproof, Moisture-proof, High Thermal Stability, Rapid Response

Technical Details

产品特点

FEATURES

- 特殊封装设计, 防水防潮性能优异
Special waterproof package, excellent waterproof / moisture-proof performance
- 稳定性强, 使用寿命长
Strong thermal stability of resistance, long service life
- 时间常数 5-20s
Time Constant 5-20s

应用领域

APPLICATION

- 空调室内环境温度、盘管、压缩机温度
The temperature of indoor/outdoor environment, coil and compressor of air conditioner
- 电热水器、空气能热水器探头温度
The temperature of water tank of electric / air energy / water heater and air energy water heater

主要技术参数

TECHNICAL PARAMETERS

系列 Series	型号 Model	Φ mm	L mm	标称温度 Nominal Temp. °C	标称电阻 Nominal Resistance KΩ	精度 Accuracy	工作温度 Operating Temperature
1	WF4S03XX025	φ5.7	24.30	25	50	±0.5%	-40°C~+150°C
	WF4S03XX025	φ5.7	24.30	25	20	±0.5%	-40°C~+150°C
	WF4S03XX025	φ5.7	24.30	25	5	±0.5%	-40°C~+150°C
	WF4J03XX025	φ5.7	24.30	25	10	±0.5%	-40°C~+150°C
2	WF4I21XX085	φ5.7	24.30	85	2.113	±0.5%	-40°C~+150°C
	WF4R50XX080	φ5.6	24.20	80	50	±0.5%	-40°C~+150°C
	WF4R50XX080	φ4.3±0.0	24.25	25	10	±0.5%	-40°C~+150°C
3	WF1J03XX025	φ4.5	15.40	25	20	±0.5%	-40°C~+150°C
	WF1S03XX025	φ4.5	15.40	25	5	±0.5%	-40°C~+150°C
	WF1J03XX025	φ4.5	15.40	25	10	±0.5%	-40°C~+150°C
4	WF1S03XX025	φ4.5	15.40	25	10	±0.5%	-40°C~+150°C
	WF1S03XX025	10V4V15H10	30.40	25	5	±0.5%	-40°C~+150°C

Detailed technical parameters and application guide for the sensor series.

Applications

- Air conditioner coils and compressors
- Indoor and outdoor environmental monitoring
- Electric water heater tanks
- Air energy water heater tanks

Technical Data Summary

Model	Nominal Temp (°C)	Resistance (K Ω)	B Value
WF41503XX025	25	50	3950 (25/50)
WF41203XX025	25	20	3950 (25/50)
WF4C502XX025	25	5	3470 (25/50)
WF4J103XX025	25	10	4100 (25/50)
WF4I212XX085	85	2.113	4000 (25/50)
WF4R503XX080	80	50	4450 (25/50)