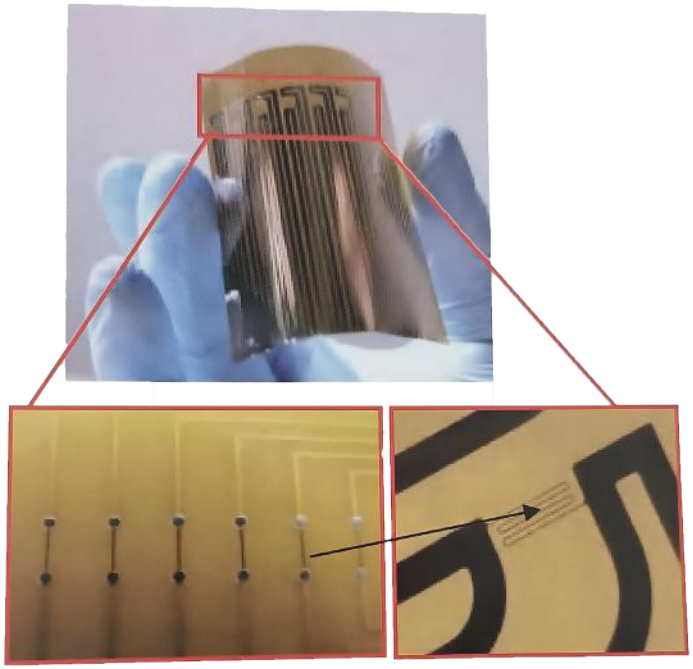
GREENTECH

MV GREENTECH PVT LTD.

Product Catalogue

Ultra Precision Sensing Solutions

Flexible Thin Film Temperature Sensor



MAIN FEATURES

The main characteristics are flexible and bendable, small size, light weight, and fast response speed, especially suitable for thermal environment monitoring of small devices with narrow space and large curvature, such as rechargeable batteries, micro satellites, medical devices, etc.

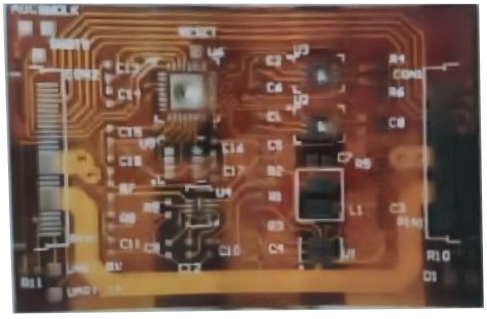
Parameter	Specification
Sensor Size	60mm×6mm×51μm; Customizable
Temperature response time	<1ms
Measuring range	-50~200°C
Measuring accuracy	0.1°C
Linearity	Better than 99.9%
TCR	TCR>5000ppm/°C

Flexible Pressure Grip System for Gas Pressure

MAIN FEATURES

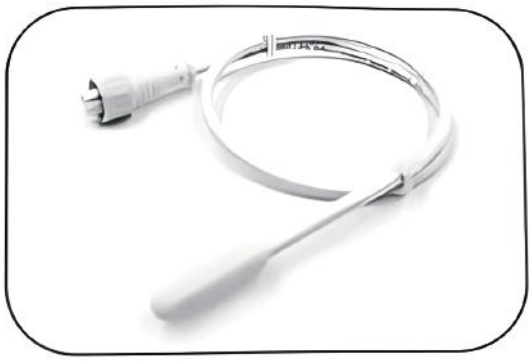
- The impact on the aerodynamic shape is small, and the thickness of the flexible pressure gauge is less than 2.5mm;
- High synchronization, sensor synchronization acquisition accuracy less than 1 μS;
- There are a large number of sensor nodes, with a maximum support of 512 nodes;
- Support real-time transmission and local storage of sensor data.

Parameter	Specification
Sensor Size	2.5mm
Temperature response time	5×3mm^2
Measuring range	300~1100hPa
Measuring accuracy	0.18Pa
Linearity	-40~85°C

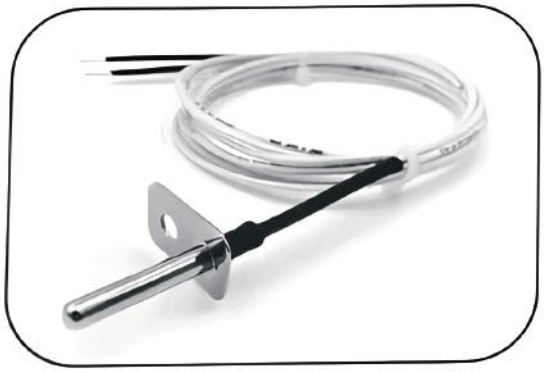


Sensor for Air Temperature

Item: air conditioner temperature sensor
Spec: NTC 5KΩ/10KΩ/50KΩ
Features: moisture resistant



Item: refrigerator temperature sensor
Spec: NTC 2KΩ/5KΩ/10KΩ
Features: low water absorption



Item: oven temperature sensor
Spec: NTC 100KΩ/PT500/PT1000
Features: high temperature resistant

Item: smoker temperature sensor
Spec: Type K, J, N, T
Features: high temperature resistant

Item: low temperature sensor
Spec: PT100/PT1000
Features: low temp, anti-corrosion

Item: precision temperature sensor
Spec: PT100/PT1000
Features: low temp, anti-corrosion

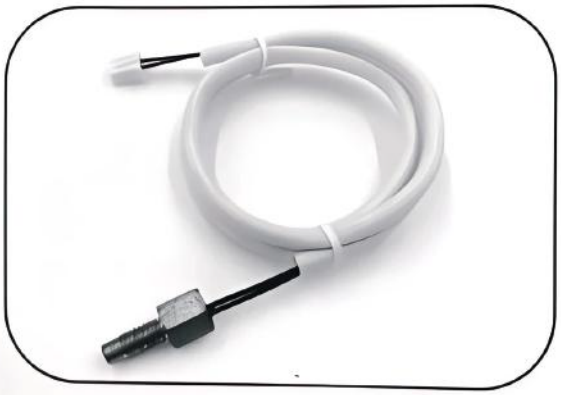
Sensor for Solid Temperature

Item: ring lug temperature sensor
Spec: NTC 5KΩ/10KΩ
Features: surface mounting

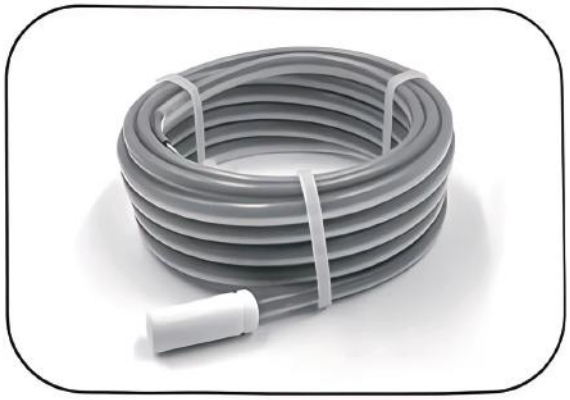
Item: flat surface temperature sensor
Spec: NTC 10KΩ/50KΩ/100KΩ
Features: surface mounting

Item:clip-on temperature sensor
Spec: NTC 10KΩ/50KΩ/PT100
Features: easy installation

Item: belt-on temperature sensor
Spec: NTC 10KΩ/50KΩ/PT100
Features: easy installation



Item: screw-in temperature sensor
Spec: NTC 10KΩ/50KΩ/100KΩ
Features: fast response, easy mounting

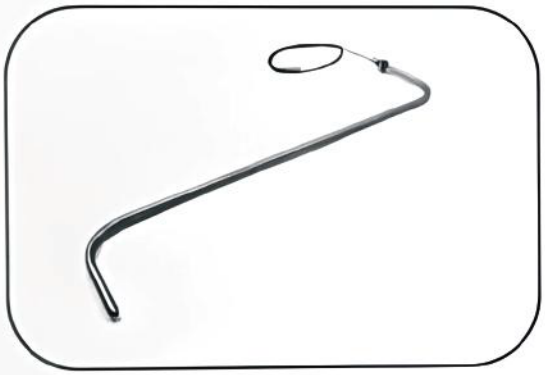


Item: floor temperature sensor
Spec: NTC 10KΩ/50KΩ/DS18B20
Features: waterproof, easy installation

Sensor for Liquid Temperature

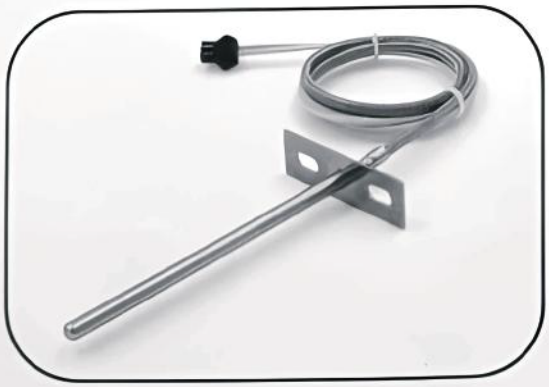
Item: water temperature sensor
Spec: NTC 10KΩ/50KΩ
Features: IP68, anti-corrosion

Item: temperature controller sensor
Spec: NTC 100KΩ/PT1000
Features: IP67, anti-corrosion



Item: oil fryer temperature sensor
Spec: NTC 100KΩ/PT1000
Features: food safe, max 550℃

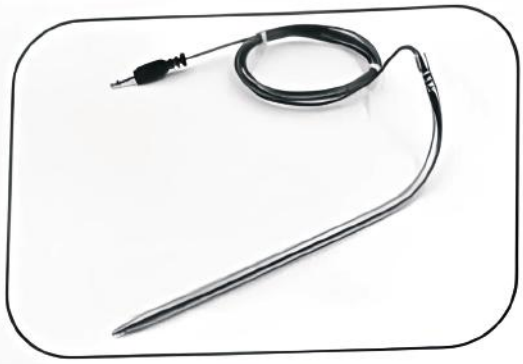
Item: industrial oil bath temperature sensor
Spec: PT100/PT500/PT1000
Features: food safe, max 550℃



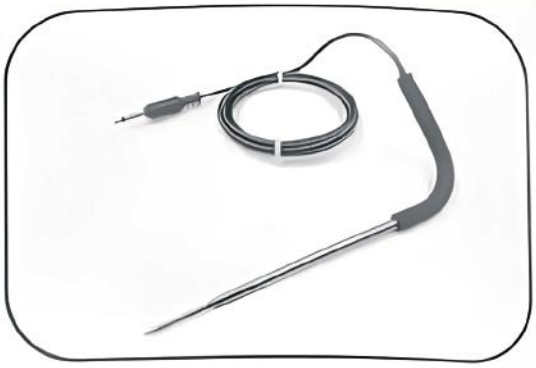
Item: oil tank temperature sensor
Spec: NTC 100KΩ/PT1000
Features: easy installation, max 550℃

Item: water tank temperature sensor
Spec: NTC 10KΩ/PT100
Features: anti-corrosion, waterproof

Sensor for Food Temperature



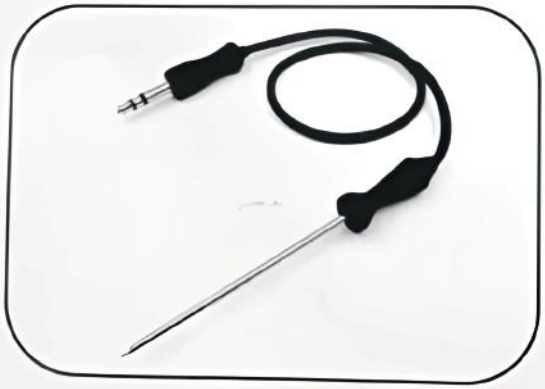
Item: food temperature probe
Spec: NTC 100KΩ/PT1000
Features: food-safe, FDA/LFGB



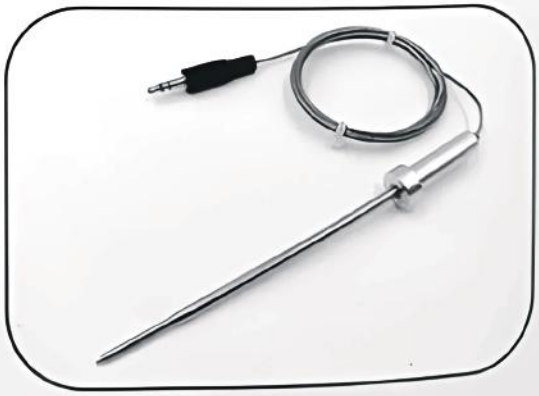
Item: food temperature probe
Spec: NTC 50KΩ/100KΩ
Features: food-safe, FDA/LFGB

Item: BBQ temperature probe
Spec: NTC 100KΩ/PT1000
Features: food-safe, FDA/LFGB

Item: ambient temperature probe
Spec: NTC 100KΩ/1000KΩ
Features: food-safe, FDA/LFGB



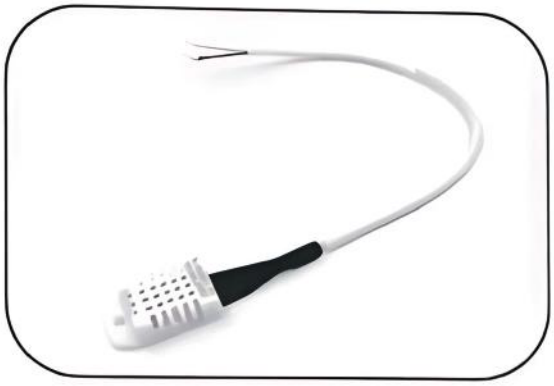
Item: oven temperature probe
Spec: NTC 3.3KΩ/100KΩ
Features: food-safe, FDA/LFGB



Item: food temperature probe
Spec: NTC 50KΩ/100KΩ
Features: food-safe, FDA/LFGB

Temperature and Humidity Sensor

Item: temp. and humidity sensor
Spec: SHT20/21, SHT30/31/35
Features: SS304 housing



Item: temp. and humidity sensor
Spec: DHT222
Features: plastic housing

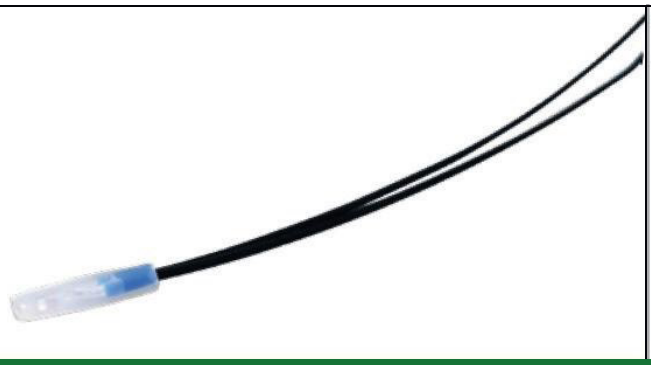
Item: temp. and humidity sensor
Spec: SHT20/21, SHT30/31/35
Features: metal stinering housing

Item: temp. and humidity sensor
Spec: HTU21D(F)/HTU31D
Features: plastic housing

Item: temp. and humidity sensor
Spec: SHT20/21, SHT30/31/35
Features: plastic housing

Item: temp. and humidity sensor
Spec: SHT20/21, SHT30/31/35
Features: plastic housing

Temperature Sensors For New Energy Vehicles



Motor temperature sensor

Charging dock/pile temperature sensor

Feature

The product has the characteristics of small size, high voltage resistance, fast thermal response time, wide working temperature, good temperature measurement linearity, and long working life.

Application

Widely used for temperature detection of motors in new energy vehicles

Working temperature range

-40~200°C

Thermal time constant

≤20S(Test in still air)

Withstanding voltage

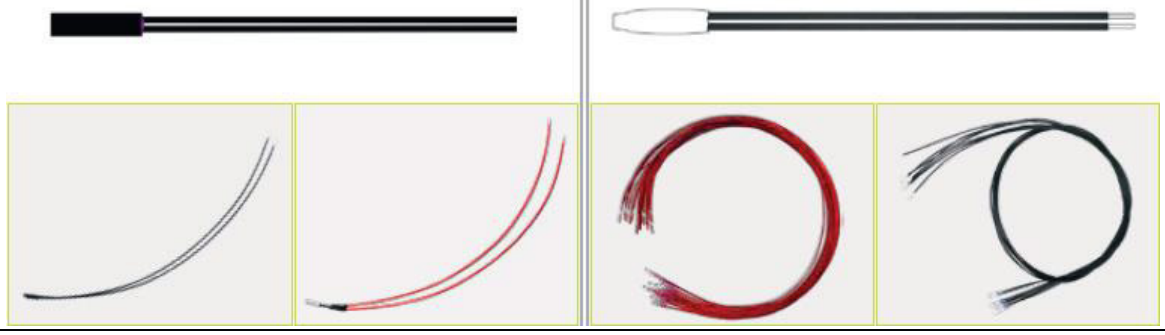
3KV@AC &60S, 50Hz, leakage current less than 1mA
(Tested at room temperature), no breakdown or arcing

Resistance value

R25℃=100KΩ±1% Can be customized

B value

B25℃/50℃=4390±1% Can be customized



Temperature Sensors For New Energy Vehicles

Capacitive temperature sensor

DC/DC converter temperature sensor

Feature

The product has the characteristics of small size, high voltage resistance, fast thermal response time, wide working temperature, good temperature measurement linearity, and long working life.

Application

Widely used in temperature control systems for new energy vehicles

Working temperature range

-40~105°C

Thermal time constant

≤70S(Test in still air)

Withstanding voltage

3.5KV@AC & 60S, 50Hz, leakage current less than 1mA (Tested at room temperature), no breakdown or arcing

Resistance value

R25℃=10KΩ±1% Can be customized

B value

B25℃/50℃=3435±1% Can be customized

Application

Widely used in new energy charging systems, battery packs, and DC converters

Working temperature range

-40~125°C

Insulation resistance

100MΩ@500Vdc(Tested at room temperature)

Withstanding voltage

2.0KV@AC & 60S, 50Hz, leakage current less than 1mA (tested at room temperature), no breakdown or flashover

Resistance value

R25℃=50KΩ±1% Can be customized

B value

B25℃/50℃=3950K±1% Can be customized

Temperature Sensors For New Energy Vehicles

Air conditioning temperature sensor

Feature
The product has the characteristics of small size, high voltage resistance, fast thermal response time, wide working temperature,good temperature measurement linearity, and long working life.

Application
Widely used in automotive air conditioning and household refrigerators

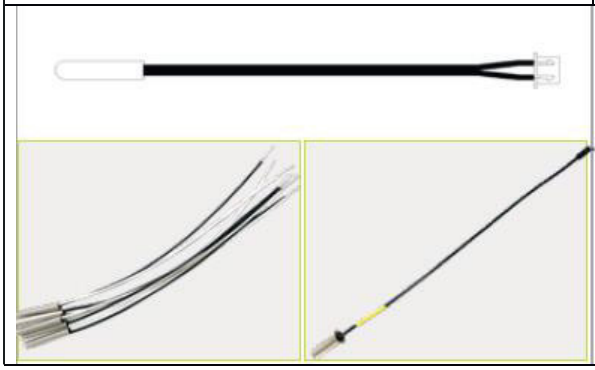
Working temperature range
-30~105°C

Shell pressure resistance
<0.5MPa

Withstanding voltage
1000V@AC &60S, 50Hz, leakage current less than 1mA (Tested at room temperature), no breakdown alarm or flashover

Resistance value
R25℃=10KΩ ± 1 % Can be customized

B value
B25℃/50℃=3470±1% Can be customized



Car water temperature sensor

Feature
The housing of the car water temperature and oil temperature sensor adopts brass anti impact damping, effectively protecting the stable operation of the internal structure.

Application
Widely used for detecting water temperature, oil temperature, and temperature in automobiles

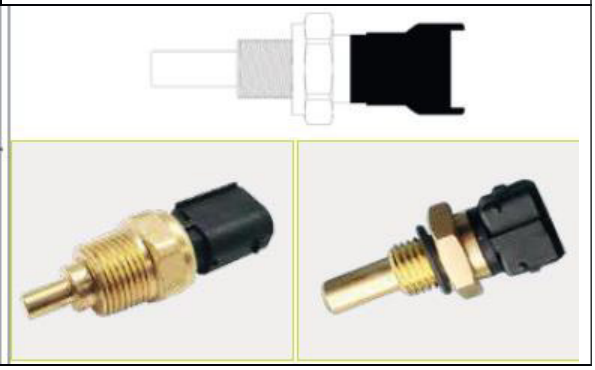
Working temperature range
-30~120°C

Shell pressure resistance
≤0.5MPa

Working current
≤100mA

Resistance value
R25℃=2KΩ±1% Can be customized

B value
B25℃/50℃=3470±1% Can be customized



Temperature Sensors For New Energy Vehicles

CMTS01 Exhaust Temperature Sensor

CMTS02 Exhaust Temperature Sensor

Application
Diesel engine particulate filter, exhaust gas recirculation, catalytic converter control and detection of engine components (valves, air pipes), assembly in on-site diagnostic system, measurement of exhaust gas recirculation temperature.

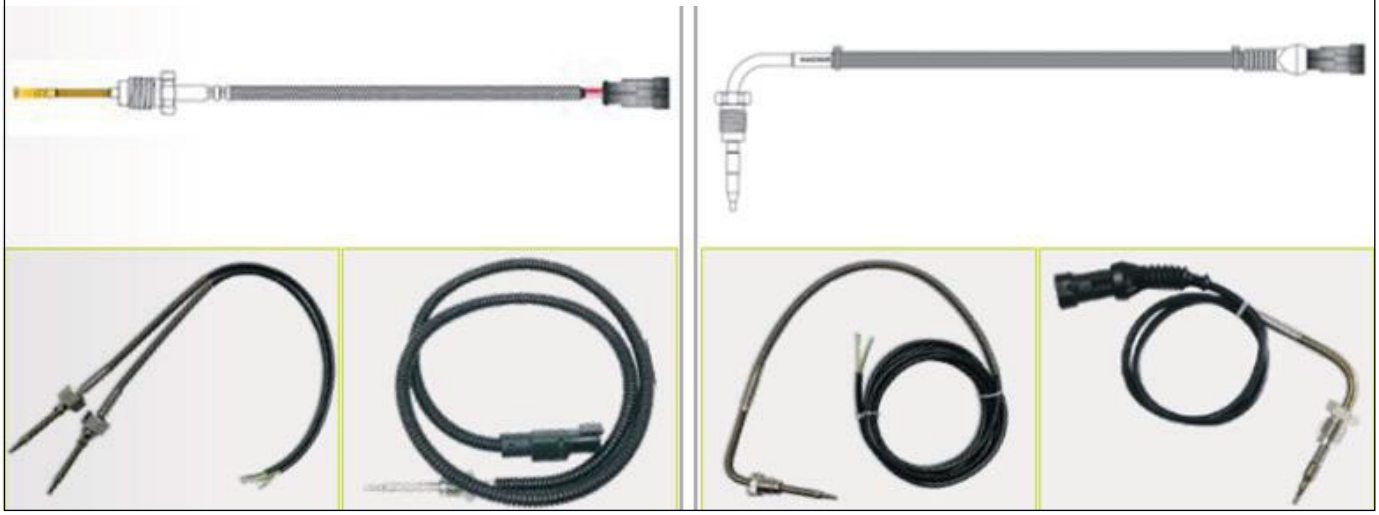
Working temperature range
-40℃～+1000℃

Rated resistance value
0℃@200Ω

Insulation resistance
At 25 ℃, ≥10MΩ@500Vdc

Long-term stability
≤0.04%@1000h

Anti vibration ability
10～5000Hz, 4G



Temperature Sensors for Industrial Applications

01. Direct tube encapsulated probe type temperature sensor

Use a stainless steel tube (or other specified metal material) to encapsulate the temperature sensing element inside and lead out wires to achieve the purpose of protecting the temperature sensing element. Commonly used in humid, liquid, dust, corrosive, extruded, and conventional working environments. It is the most common form of packaging for temperature sensors.

02. Step tube encapsulated temperature sensor

Step tube encapsulated temperature sensor is a type of temperature sensor that uses a stainless steel tube (or other specified metal material) with steps to encapsulate the temperature sensing element inside and lead out wires. It is commonly used in humid, liquid, dust, corrosive, extruded, and conventional working environments.

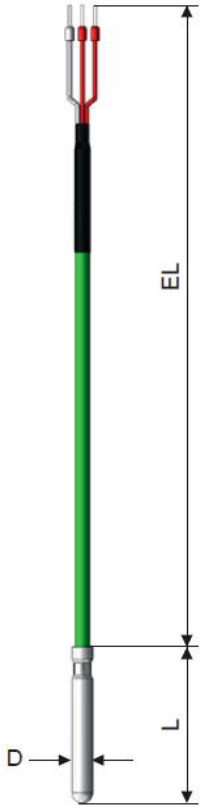
03. Handheld temperature sensor

A temperature sensor specially designed and produced for experimental instrument manufacturers, with spring wire, convenient handheld measurement, high accuracy, and good waterproof performance.

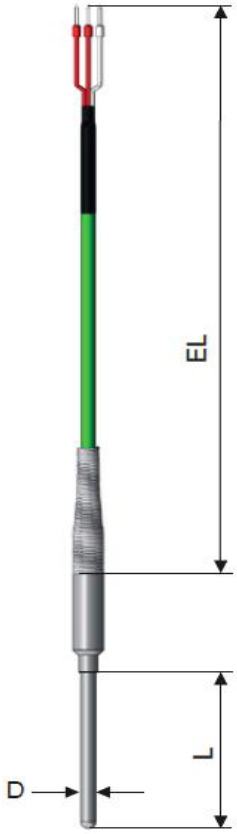
Number	Parameter	Detailed description
1	Graduation	RTD：Pt100, Pt1000, Pt500, Pt200 Thermocouple： K/J/N/E/S/T/R/B Thermistor：5K,10K,100K, 50K, 2.2K DS18B20
2	Accuracy	RTD： Classes 1/3B, A, B Thermocouple： Class I, Class II Thermistor：1%, 2%, 3% DS18B20：nil
3	Temperature range	RTD：-200~850°C Thermocouple：-280~1820°C Thermistor：-50~300°C DS18B20：-55~125°C
4	Connection	RTD：T=two-wire system; S=three-wire system; F=Four wire system Thermocouple：nil Thermistor：nil DS18B20：nil
5	Wire tail processing method	L=exposed, U=U-shaped terminal, Z=pin terminal, Q=connector, O=O-type terminal
6	Cable anti-bending protection	W=No anti folding protection; T=spring; R=hose
7	Cable length EL (mm)	500,1000,2000 or specified
8	Probe diameter D(mm)	2,3,4,5,6,8,10....20 or specified
9	Probe length L (mm)	10~2000 or specified

Temperature Sensors for Industrial Applications

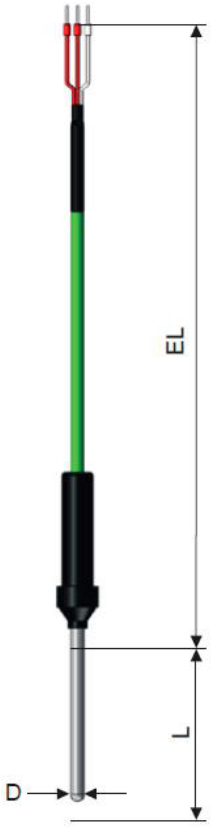
Direct tube encapsulated probe type temperature sensor

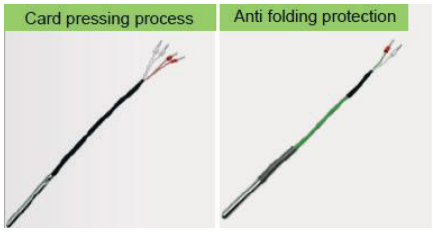


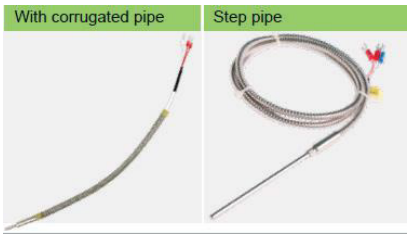
Step tube encapsulated temperature sensor

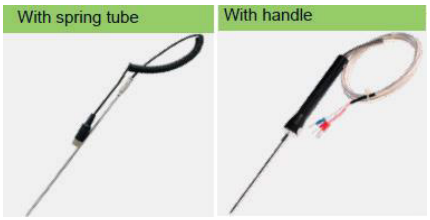


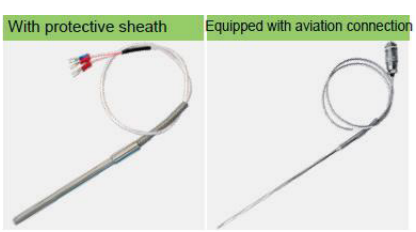
Handheld temperature sensor











Temperature Sensors for Industrial Applications

04. Fixed thread installation temperature sensor

Thread mounted temperature sensors are the most common installation method for temperature sensors, suitable for various industries. Their design purpose is mainly for temperature measurement of the medium inside pipelines.

05. Movable thread installation temperature sensor

Thread mounted temperature sensors are the most common installation method for temperature sensors, suitable for various industries. Their design purpose is mainly for temperature measurement of the medium inside pipelines.

06. Card spring temperature sensor

A movable screw installation with a top tightening thread, adjustable insertion depth, which can be closely attached to the temperature sensor at the measuring point. Used in industries such as motor bearings, food machinery, experimental equipment, and power molds.

07. Handheld temperature sensor with holes on tube

Handheld temperature sensor, using heat-resistant electric wood as the handle, with holes drilled in the metal protective tube to meet the requirement of rapid sensor response. The size, quantity, and dimensions of the open ings can be customized according to the customer's needs. Commonly used in industries such as test chambers, high and low temperature test chambers.

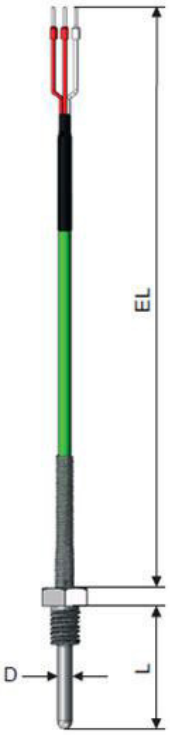
08. Plug in temperature sensor

Plug in temperature sensor, using a nylon connector housing filled with glass fiber and a plug-in connector, can fully utilize its performance even with extremely small diameters. This product can resist carburizing, oxidation, and chlorination in harsh environments.

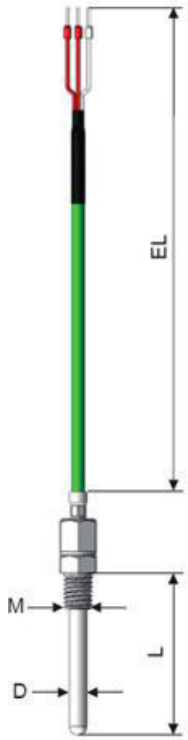
Number	Parameter	Detailed description
1	Graduation	RTD：Pt100, Pt1000, Pt500, Pt200 Thermocouple： K/J/N/E/S/T/R/B Thermistor：5K,10K,100K, 50K, 2.2K DS18B20
2	Accuracy	RTD： Classes 1/3B, A, B Thermocouple： Class I, Class II Thermistor：1%, 2%, 3% DS18B20：nil
3	Temperature range	RTD：-200~850°C Thermocouple：-280~1820°C Thermistor：-50~300°C DS18B20：-55~125°C
4	Connection	RTD：T=two-wire system; S=three-wire system; F=Four wire system Thermocouple：nil Thermistor：nil DS18B20：nil
5	Wire tail processing method	L=exposed, U=U-shaped terminal, Z=pin terminal, Q=connector, O=O-type terminal
6	Anti-folding protection	W=No anti folding protection; T=spring; R=hose
7	Cable length EL (mm)	500,1000,2000 or specified
8	Probe diameter D(mm)	2,3,4,5,6,8,10....20 or specified
9	Probe length L (mm)	10~2000 or specified
10	Thread specification	M5, M6, M8, M10, M12, M14, M20, or specified

Temperature Sensors for Industrial Applications

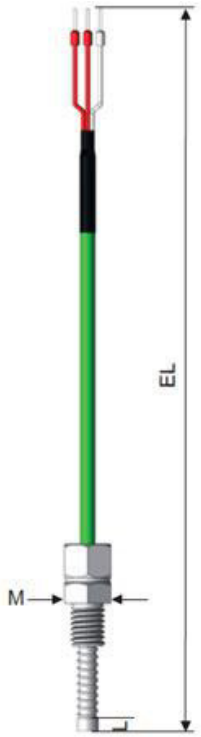
Fixed thread installation temperature sensor

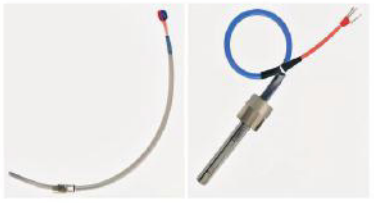


Movable thread installation temperature sensor



Card spring temperature sensor





Temperature Sensors for Industrial Applications

Handheld temperature sensor with holes on tube

Plug in temperature sensor

09. Screw type temperature sensor:

The installation method adopts a threaded sleeve that can slide and rotate, which is convenient to use and widely used for temperature measurement on the surface of heat dissipation plates and other boards. However, it is not waterproof and cannot be installed in situations where liquid medium measure ment is carried out in pipelines.

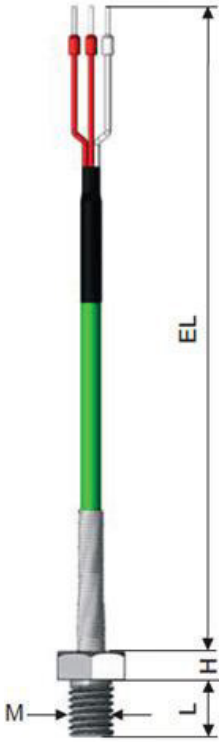
10. Spring-loaded temperature sensor:

Adopting a spring that can be pressed as the installation method, it is convenient to use and widely used in industries such as rail transit, food machinery, molds, industrial equipment, and experimental equip ment

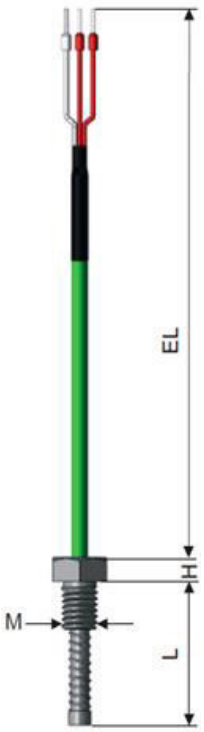
Number	Parameter	Detailed description
1	Graduation	RTD：Pt100, Pt1000, Pt500, Pt200 Thermocouple： K/J/N/E/S/T/R/B Thermistor：5K,10K,100K, 50K, 2.2K DS18B20
2	Accuracy	RTD： Classes 1/3B, A, B Thermocouple： Class I, Class II Thermistor：1%, 2%, 3% DS18B20：nil
3	Temperature range	RTD：-200~850°C Thermocouple：-280~1820°C Thermistor：-50~300°C DS18B20：-55~125°C
4	Connection	RTD：T=two-wire system; S=three-wire system; F=Four wire system Thermocouple：nil Thermistor：nil DS18B20：nil
5	Wire tail processing method	L=exposed, U=U-shaped terminal, Z=pin terminal, Q=connector, O=O-type terminal
6	Anti-folding protection	W=No anti folding protection; T=spring; R=hose
7	Cable length EL (mm)	500,1000,2000 or specified
8	Thread specification	M5, M6, M8, M10, M12, M14, M20, or specified

Temperature Sensors for Industrial Applications

Screw type temperature sensor



Spring-loaded temperature sensor



11. Surface mounted temperature sensor

The surface mounted temperature sensor has a large contact surface between the temperature sensing element and the measured object, good thermal conductivity, and more accurate measurement, making it suitable for temperature measurement on the surface of objects.

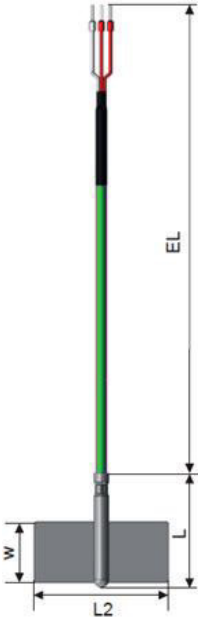
12. Copper Lug OT Terminal Temperature Sensor

Using special technology and surface screw locking installation, suitable for temperature measurement in power, molds, heaters, control cabinets, etc.

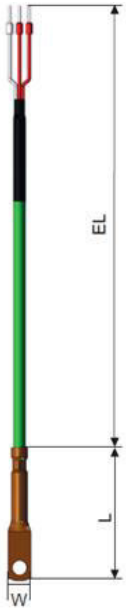
Number	Parameter	Detailed description
1	Graduation	RTD：Pt100, Pt1000, Pt500, Pt200 Thermocouple： K/J/N/E/S/T/R/B Thermistor：5K,10K,100K, 50K, 2.2K DS18B20
2	Accuracy	RTD： Classes 1/3B, A, B Thermocouple： Class I, Class II Thermistor：1%, 2%, 3% DS18B20：nil
3	Temperature range	RTD：-200~850°C Thermocouple：-280~1820°C Thermistor：-50~300°C DS18B20：-55~125°C
4	Connection	RTD：T=two-wire system; S=three-wire system; F=Four wire system Thermocouple：nil Thermistor：nil DS18B20：nil
5	Wire tail processing method	L=exposed, U=U-shaped terminal, Z=pin terminal, Q=connector, O=O-type terminal
6	Anti-folding protection	W=No anti folding protection; T=spring; R=hose
7	Cable length EL (mm)	500,1000,2000 or specified
8	Patch Size	Can be specified

Temperature Sensors for Industrial Applications

Surface mounted temperature sensor



Copper Lug OT Terminal Temperature Sensor



13. Threaded installation assembled temperature sensor

Assembled temperature sensors are made up of temperature sensing elements, metal protective tubes, insulation fillers, extension cords, junction boxes, and temperature transmitters. The product has a wide range of applications and can be made into explosion-proof, anti-corrosion, waterproof, wear-resistant, and high-temperature resistant types for use in different measurement environments.

14. Threaded Temperature Sensor with Adjustable Screw Thread

Assembled temperature sensors are made up of temperature sensing elements, metal protective tubes, insulation fillers, extension cords, junction boxes, and temperature transmitters. The product has a wide range of applications and can be made into explosion-proof, anti-corrosion, waterproof, wear-resistant, and high temperature resistant types for use in different measurement environments.

15. Hirschmann connector temperature sensor

A compact threaded installation for industrial measurement, equipped with a Hirschmann connector temperature sensor.

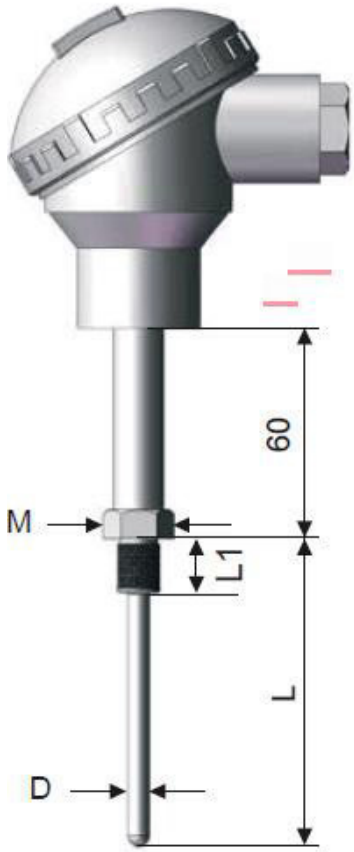
16. Aviation joint temperature sensor

A compact threaded installation for industrial measurement, equipped with a temperature sensor with a split aviation joint.

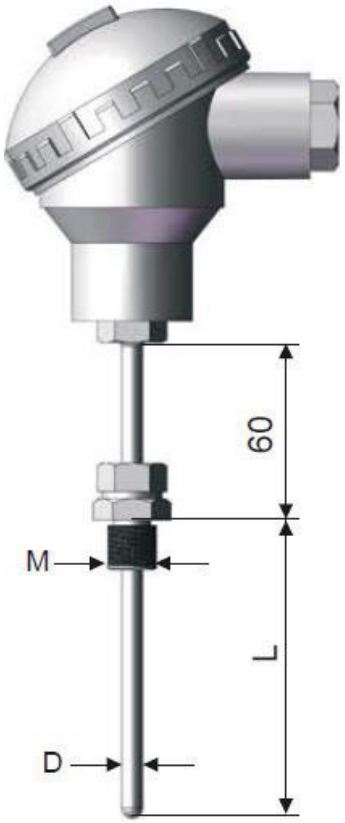
Number	Parameter	Detailed description
1	Graduation	RTD：Pt100, Pt1000, Pt500, Pt200 Thermocouple： K/J/N/E/S/T/R/B Thermistor：5K,10K,100K, 50K, 2.2K DS18B20
2	Accuracy	RTD： Classes 1/3B, A, B Thermocouple： Class I, Class II Thermistor：1%, 2%, 3% DS18B20：nil
3	Temperature range	RTD：-200~850°C Thermocouple：-280~1820°C Thermistor：-50~300°C DS18B20：-55~125°C
4	Connection	RTD：T=two-wire system; S=three-wire system; F=Four wire system Thermocouple：nil Thermistor：nil DS18B20：nil
5	Probe diameter D(mm)	2,3,4,5,6,8,10....20 or specified
6	Probe length L (mm)	10~2000 or specified
7	Thread specification	M5, M6, M8, M10, M12, M14, M20, or specified

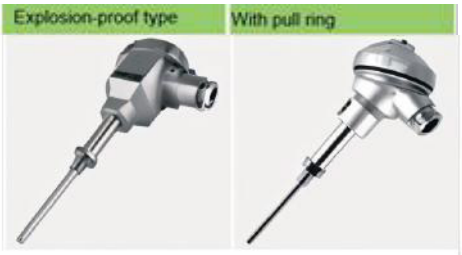
Temperature Sensors for Industrial Applications

Threaded installation assembled temperature sensor



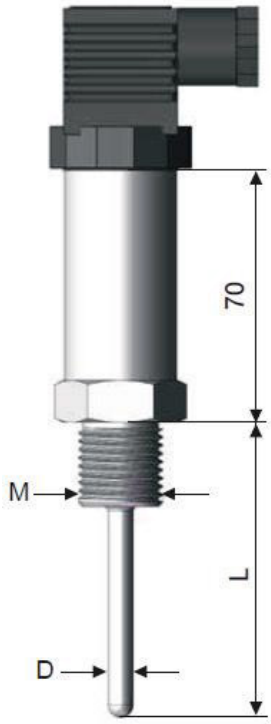
Threaded Temperature Sensor with Adjustable Screw Thread



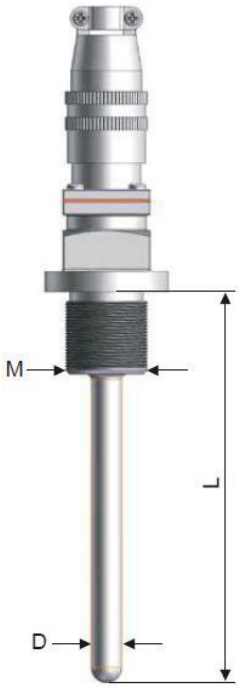


Temperature Sensors for Industrial Applications

Hirschmann connector temperature sensor



Aviation joint temperature sensor



17. Flange mounted assembled temperature sensor

A flange mounted temperature sensor is composed of temperature sensing elements, metal protective tubes, insulation fillers, extension cords, junction boxes, and temperature transmitters. The product has a simple structure and is widely used. It can be made into explosion-proof, anti-corrosion, waterproof, wear-resistant, and high temperature resistant types according to the special needs of customers, making it easy to use in different measurement environments.

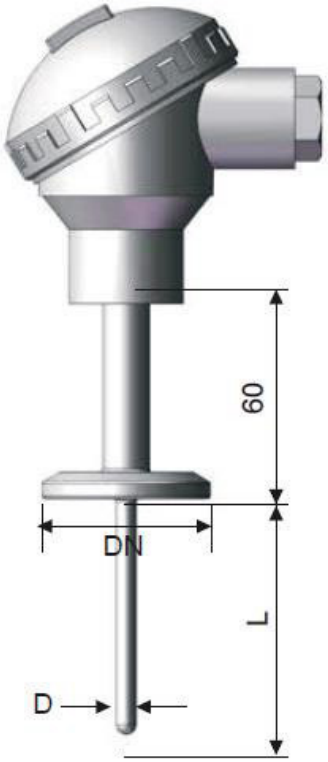
18. Movable sleeve flange mounting assembled temperature sensor

A flange mounted temperature sensor is composed of temperature sensing elements, metal protective tubes, insulation fillers, extension cords, junction boxes, and temperature transmitters. The product has a simple structure and is widely used. It can be made into explosion-proof, anti-corrosion, waterproof, wear-resistant, and high temperature resistant types according to the special needs of customers, making it easy to use in different measurement environments.

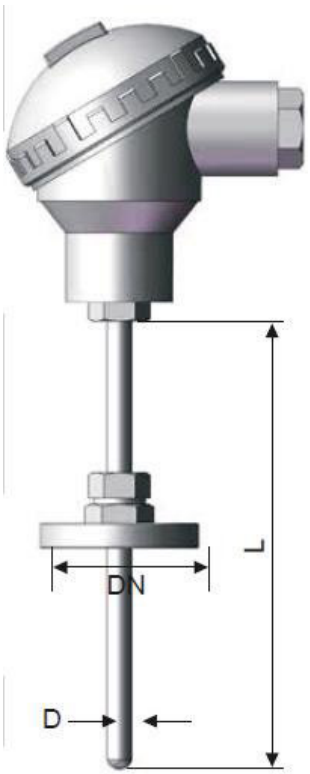
Number	Parameter	Detailed description
1	Graduation	RTD：Pt100, Pt1000, Pt500, Pt200 Thermocouple：K/J/N/E/S/T/R/B Thermistor：5K,10K,100K, 50K, 2.2K DS18B20
2	Accuracy	RTD： Classes 1/3B, A, B Thermocouple： Class I, Class II Thermistor：1%, 2%, 3% DS18B20：nil
3	Temperature range	RTD：-200~850°C Thermocouple：-280~1820°C Thermistor：-50~300°C DS18B20：-55~125°C
4	Connection	RTD：T=two-wire system; S=three-wire system; F=Four wire system Thermocouple：nil Thermistor：nil DS18B20：nil
5	Probe diameter D(mm)	2,3,4,5,6,8,10....20 or specified
6	Probe length L (mm)	10~2000 or specified
7	Process connection	Flange Mounting, Installation of movable flange

Temperature Sensors for Industrial Applications

Flange mounted assembled temperature sensor

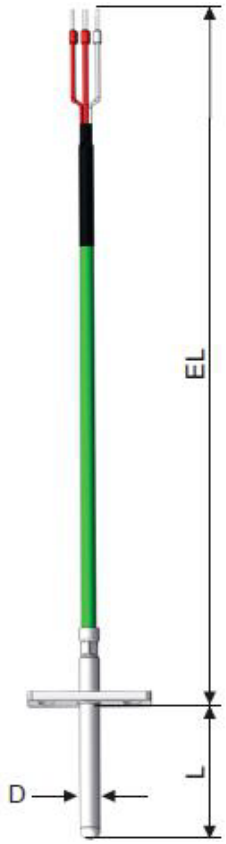


Movable sleeve flange mounting assembled temperature sensor



19. Temperature sensor with mounting plate

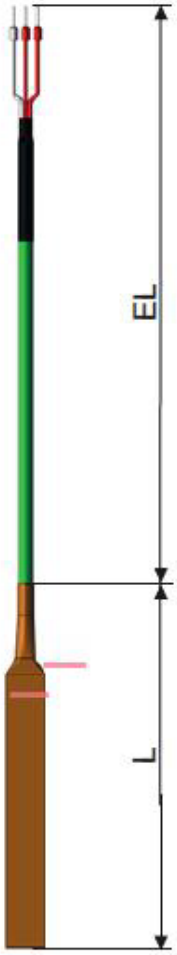
This series comes with an imported thin film chip package and is equipped with a temperature sensor for measuring solid, gas, liquid, and other temperature sensors.

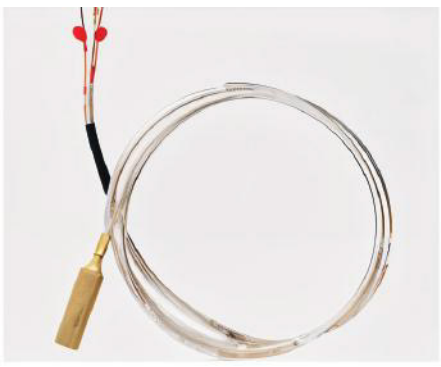
Number	Parameter	Detailed description	Product Schematic diagram
1	Graduation	RTD：Pt100, Pt1000, Pt500, Pt200 Thermocouple： K/J/N/E/S/T/R/B Thermistor：5K,10K,100K, 50K, 2.2K DS18B20	
2	Accuracy	RTD： Classes 1/3B, A, B Thermocouple： Class I, Class II Thermistor：1%, 2%, 3% DS18B20：nil	
3	Temperature range	RTD：-200~850°C Thermocouple：-280~1820°C Thermistor：-50~300°C DS18B20：-55~125°C	
4	Connection	RTD：T=two-wire system; S=three-wire system; F=Four wire system Thermocouple：nil Thermistor：nil DS18B20：nil	
5	Wire tail processing method	L=exposed, U=U-shaped terminal, Z=pin terminal, Q=connector, O=O-type terminal	
6	Anti-folding protection	W=No anti folding protection; T=spring; R=hose	
7	Cable length EL (mm)	500,1000,2000 or specified	
8	Outer diameter of magnet	DN	



20. Resin surface mount temperature sensor

This series comes with an imported thin film chip package and is equipped with a temperature sensor for measuring solid, gas, liquid, and other temperature sensors.

Number	Parameter	Detailed description	Product Schematic diagram
1	Graduation	RTD：Pt100, Pt1000, Pt500, Pt200 Thermocouple： K/J/N/E/S/T/R/B Thermistor：5K,10K,100K, 50K, 2.2K DS18B20	
2	Accuracy	RTD： Classes 1/3B, A, B Thermocouple： Class I, Class II Thermistor：1%, 2%, 3% DS18B20：nil	
3	Temperature range	RTD：-200~850°C Thermocouple：-280~1820°C Thermistor：-50~300°C DS18B20：-55~125°C	
4	Connection	RTD：T=two-wire system; S=three-wire system; F=Four wire system Thermocouple：nil Thermistor：nil DS18B20：nil	
5	Wire tail processing method	L=exposed, U=U-shaped terminal, Z=pin terminal, Q=connector, O=O-type terminal	
6	Anti-folding protection	W=No anti folding protection; T=spring; R=hose	
7	Cable length EL (mm)	500,1000,2000 or specified	
8	Shell Width W (mm)	2,3,4,5,6,8,10....20 or specified	
9	Shell length L (mm)	10~2000 or specified	
10	Shell thickness	Can be specified	



TEMPERATURE SENSOR

PLUG-IN TEMPERATURE TRANSMITTER

- Power supply voltage: 24VDC
- Output signal: 4-20mA/0-5VDC/1-5VDC/0-10VDC/RS485
- Protection level: IP65
- Operating temperature: -40-85°C

Enter	Thermal resistor Pt100
Temperature measurement range	-200℃-450℃ (thermal resistance)
Accuracy level	0.5%FS
Output signal	4-20mA
Supply voltage	24VDC
Load voltage	0-500Ω
Ambient temperature	-20—85℃
interface	M20×1.5, M16 ×1.5 or G1/2\G1/4
Protection tube material	1Cr18Ni9Ti
Get involved	30mm/50mm/100mm/150mm/200mm/250mm/300mm

Type		Illustrate
SAQC-1604		Integrated temperature transmit ter
Output method	E	4-20mA
	V5	0-5V
	V10	0-10V
Accuracy level	1	Level 0.5
	2	Level 0.2
Process connection	A	20*1.5
	B	16*1.5
Protection tube	0	6
	1	5
Display Mode	0	Without display
	M3	With LED display
Power supply mode	A	DC24V battery power supply
Measuring range	-200-450℃ (thermal resistance)	Customer selection

TEMPERATURE SENSOR

INTELLIGENT TEMPERATURE SENSOR

- Output signal: 4~20mA (declaration when ordering)
- Protection level: IP65
- Working environment: Temperature: -30°C~60°C;
  Humidity: <90%

Product Model	WPYS
Temperature measurement	PT100
Insertion depth	10mm~2000mm(customized according to customer needs)
Output signal	4～20mA (declare when ordering)
Detection accuracy	0.2 level 0.5 level
Power supply	24VDC
Work Environment	Temperature: -30℃~60℃; Humidity: <90%
Process connection	M20*1.5 (external thread) or customized according to user requirements

Wall Mounted Temperature and Humidity Transmitter

Temperature and humidity transmitter

Below 4 Technical Parameters (Common) for (i) Wall Mounted temperature and humidity transmitter, (ii) Duct type temperature and humidity transmitter, (iii) Split type temperature and humidity transmitter, (iv) Wall mounted temperature and humidity transmitter

Power supply	Current output type (4-20mA three wire system) Network output type (RS485)	DC24V（15V~36VDC） DC24V（12V~36VDC）
Work environment	Temperature Humidity	-20 ~85℃ 10—95%RH
Response time	≤ 15s（Wind speed 1m/s）	
Long term stability	Temperature Humidity	≤ 0.1℃ / year ≤ 1%RH/ year

Wall Mounted temperature and humidity transmitter	**Introduction** Integrated design of sensing and transmission, suitable for temperature and humidity measurement in HVAC indoor environments. Adopting dedicated temperature compensation circuit and linearization processing circuit. The sensor has reliable performance, long service life, and fast response speed.
	**Application** Suitable for temperature and humidity measurement in communication rooms, offices, factories, workshops, warehouses, hospitals, archives, museums, HVAC systems, building automation and other environments.
	Feature ①Beautiful appearance and easy installation ② Accurate measurement and stable output ③ LCD displays temperature and humidity simultaneously ④ Humidity full range temperature compensation ⑤ Wide range operating voltage ⑥ Intelligent processing of single-chip microcontroller with high anti-interference design.

Technical parameters		
Range	Temperature Humidity	-20 ~100℃,Customizable range 0~100%RH
Accuracy	Temperature Humidity	±0.5℃（0-50℃） ±3%RH（5%-95%RH，25℃）
Load capacity	Current output type RS485	≤ 500Ω ≤ 1000M
Installation method	Wall-mounted	Screw fixed wall surface
Shell size	ABS （99mm×83mm×22mm）	

Split-Type Temperature and Humidity Transmitter

Duct type temperature and humidity transmitter	**Introduction** Integrated design of sensing and transmission, using dedicated temperature compensation circuit and linearization processing circuit. The sensor has reliable performance, long service life, and fast response speed.	
	**Application** Suitable for temperature and humidity measurement in communication rooms, offices, factories, workshops, warehouses, hospitals, archives, museums, HVAC systems, building automation and other environments.	
	Feature ① Beautiful appearance and easy installation ② Accurate measurement and stable output ③ Full range humidity and temperature compensation ④ Wide range operating voltage ⑤ Intelligent processing and high anti-interference design of single-chip microcomputer	
Technical parameters		
Range	Temperature Humidity	-40 ~120℃,Customizable range 0~100%RH
Accuracy	Temperature Humidity	±0.5℃（0-50℃） ±2%RH、±3%RH、±5%RH
Load capacity	Current output type RS485	≤ 500Ω ≤ 1000M
Installation method	Air duct type	Fixed activity flange
Shell size	197mm	

Split type temperature and humidity transmitter	**Introduction** Integrated design of sensing and transmission. Adopting dedicated temperature compensation circuit and linearization processing circuit. The sensor has reliable performance, long service life, and fast response speed.	
	**Application** Suitable for temperature and humidity measurement in communication rooms, offices, factories, workshops, warehouses, hospitals, archives, museums, HVAC systems, building automation and other environments.	
	Feature ① Beautiful appearance and easy installation ② Accurate measurement and stable output ③ Humidity full range temperature compensation ④ Wide range operating voltage ⑤ Single chip intelligent processing and high anti-interference design	
Technical parameters		
Range	Temperature Humidity	-20 ~70℃，Customizable range 0~100%RH
Accuracy	Temperature Humidity	±0.5℃（0-50℃）±2%RH、 ±3%RH、±5%RH
Load capacity	Current output type RS485	≤ 500Ω ≤ 1000M
Installation method	Wall Mount	
Lead length	Customizable (≤ 1.5m)	

Wall Mounted Temperature and Humidity Transmitter

Wall mounted temperature and humidity transmitter	**Introduction** Integrated design of sensing and transmission, using dedicated temperature compensation circuit and linearization processing circuit. The sensor has reliable performance, long service life, and fast response speed.	
	**Application** Used in harsh environments such as tobacco, textiles, cold storage, as well as indoor and outdoor environments.	
	Feature ① Standard current/voltage signal output; ② Specialized digital circuits for precise and stable measurement; ③ Optional local LCD display; ④ Automatic anti condensation function, extending the service life of humidity sensitive components	
Technical parameters		
Range	Temperature Humidity	-40 ~80℃，Customizable range 0~100%RH
Accuracy	Temperature Humidity	＜±0.3℃（25℃） ＜±3%RH（25℃，30%RH～80%RH）
Load capacity	Current output type Voltage output type	≤ 50KΩ ≤ 50KΩ
Installation method	4-position wiring terminal (spacing 5.0mm)	
Housing material	ABS engineering plastic	

Intelligent Temperature and Humidity Transmitter

Intelligent temperature and humidity transmitter

Application

Industrial process detection and control; Industrial drying and humidifiers; Urban pipe gallery monitoring; Food and medicine; Meteorological and environmental chamber; Clean room, cultivation room, incubation room, storage room, cooling room; Electronic factory; Agricultural green greenhouse; Aquaculture industry; Indoor water pool; HVAC HVAC system; Building control.

Feature

① Lightning protection, anti surge, anti pulse group, anti RF interference, anti leakage interference;
② Supports multiple signal outputs such as 4... 20mA, O... 10V, RS485, etc;
③ Support isolated output of two current analog signals;
④ Support outputs related to temperature, humidity, dew point, absolute humidity, mixing ratio, etc;
⑤ Wall mounted, air duct mounted, and split probe types are available for selection;
⑥ Adopting advanced coating technology, it has excellent anti pollution ability;
⑦ Compact shell design with IP67 protection capability;
⑧ 15mm probe or 14mm stainless steel probe, supporting sensor fault alarm;
⑨ Can be configured and corrected through the PC configuration tool.

Technical Parameters

Power supply	Current output type (4-20mA three wire system) Network output type (RS485)	DC24V（10V~30VDC） DC24V（10V~30VDC）
Range	Temperature Humidity	-40 ~125℃,Customizable range 0~100%RH
Accuracy	Temperature Humidity	±0.3℃（0-50℃） ±2%RH
Work environment	Temperature Humidity	-20 ~85℃ 10—95%RH
Load capacity	Current output type RS485	≤ 500Ω ≤ 1000M
Response time	1S	
Long term stability	Temperature Humidity	≤ 0.1℃ / year ≤ 0.05%RH/ year
Installation method	Installation of air ducts or wall installations	
Shell material	PC	

Temperature Transmitter

Integrated installation of temperature transmitter

Introduction

The temperature transmitter module is a 4-20mA DC output module designed specifically for thermal resistance and thermocouple temperature sensors. Equipped with reverse power protection and temperature sensor open circuit alarm output function. Upgrade the sensor to an integrated temperature transmitter installed in the temperature sensor header.

Feature

① Linearization of thermocouple and thermistor inputs, converted to standard current output
② Convert mV voltage signal input to standard current output
③ Conversion of resistance signal input to standard current output
④ 0~20mA (expandable to 40mA) current input converted to standard current output
⑤ Can feed power to on-site two-wire or three wire equipment and connect the on-site equipment
⑥ Convert the output voltage or current signal into a standard current output
⑦ Output two standard current signals

Technical Parameters

Communication interface	Dual pin interface
Supply Voltage	8.5 ~ 32 VDC
Response time	≦0.4S
Accuracy	±0.1%
Minimum operating voltage	8.5V
Temperature drift	±0.01%/℃
Voltage resistance between input/output/power terminals	≧1500VAC：1min
Resistance between input/output/power terminals	≧100MQ/500V
Input signal	PT100、PT1000、S、R、B、K、E、J、N、T
Output signal	4~20mAD0 (two-wire system)
Working voltage	24VDC(12V~40VDC)
Load capacity	0-500Ω
Protective output current	Maximum output current ≤ 22mA, Minimum output current ≤ 3.9mA
External dimensions	φ45mm H22mm
Installation hole spacing	36mm
Protection level: shell/terminal	IP50/IP20

DIN-Rail Mounting Type Temperature Transmitter

DIN-Rail mounting type temperature transmitter	**Introduction** This series temperature transmission conversion module is a specialized module for current or voltage output that is matched with thermal resistance or thermocouple temperature sensors; This module adopts imported original components, assembled by surface mount technology, with stable and reliable performance, compact size, and easy installation.
	**Feature** ① Output 4-20mA, 0-10mA, 0-20mA; The standard constant current signal is only linearly related to the measured temperature and is independent of the size of the load resistance. ② Output high impedance, large signal, and no RF interference impact; It has explosion-proof, shockproof, moisture-proof, and heat-resistant functions. ③ Equipped with reverse polarity protection function for power supply; and it has functions such as input signal open circuit and misconnection alarm, normal operation indication, output protection, etc. ④ It has strong remote transmission function and is extremely easy to install and use; The thermocouple transmitter itself has cold end compensation, does not require external compensation wires, and other compensation measures. ⑤ Compact size, beautiful appearance, suitable for dense installation, integrated isolation and transmission; Good linearity, good temperature characteristics, high conversion accuracy, and stable performance. ⑥ Guide rail installation, easy loading and unloading; Fully isolated between input/output/power supply, with strong anti-interference ability.

Technical parameters	
Input signal	PT100、PT1000、S、R、B、K、E、J、N、T
Output signal	4~20mA/0~5V/0~10V/1~5V/1~10V
Temperature range	-200℃~+500℃
Working voltage	24VDC(12~30VDC)
Accuracy	±0.2%FS/±0.5%FS
Protective output current	Min≥3.6mA~Max≤27mA
Temperature drift	0.01%FS/1℃
Temperature range	20℃~+80℃, Non corrosive gas
Ambient humidity	5~95% RH (non condensing)
Housing material	ABS
Installation method	Installation of card slot track (track slot width 36mm)
Shell size	94×24 mm H 41mm

Intelligent TemperatureTtransmission Isolation Safety Barrier

Intelligent temperature transmission isolation safety barrier 	**Introduction** Thermocouples, thermistors, or other millivolt signal inputs suitable for hazardous areas on site are isolated and converted into standard DC signals for output to control systems or other instruments in safe areas. It is an intelligent temperature transmission isolation safety barrier with a USB interface. It can be programmed through a PC and control software to set the input thermocouple type and range, and can verify the zero and full range of the output signal. Single channel, one input, one output. The isolation safety barrier is powered by an independent DC power supply, and the input-output power supply channels are isolated from each other. **Feature** ① Adopting advanced digital technology, it performs excellently in suppressing high and low frequency interference signals ② Internally, advanced technologies such as digital calibration, zero free and full-scale potentiometers, automatic dynamic zero calibration, and automatic compensation for temperature drift are adopted.

Technical parameters	
Input signal	PT100、PT1000、S、R、B、K、E、J、N、T
Output signal	4-20mA, other specified currents; 1-5V, other specified voltages
Working voltage	24VDC(12V~40VDC)
Load capacity	When outputting 4-20mA, ≤ 350 Ω
Ambient temperature	-20℃~ +60℃
Compensation accuracy	±1℃ (Compensation range -20℃~+60℃)
Temperature drift	0.01%F.S./℃
Response time	< 0.4s
Isolating power	
Insulation resistance	Between input and output power supplies, ≥100MΩ / 500VDCFlame retardant
Shell material/Protection level	ABS/IP20
External dimensions	16×116×110(mm)