ASPIRE POLYMER & MOULD SOLUTION

Our Firm is involved in manufacturing, supplying, distributing and wholesaling a wide variety of products. These products include Blower Heating Cooling Jacket Heaters, Low- And High-Density Cartridge Heaters, Tubular Heaters for best Manifolds, Mica Nozzle Heaters, Tubular Immersion Heaters, Air Heaters and many more. These products offer high durability and wide application in many industrial sectors. All the products offered by us can also be availed in a variety of customized versions manufactured as per the specifications provided by the clients.

Our huge infrastructure and advanced machinery facilitate us to bring forth a range of products which provide wide usage at user end. We also induce regular changes in the products to keep them upgraded as per the changing industry requirements. These changes keep the product line appealing for the clients and also prevents the products from getting obsolete. We have a very strict quality policy which enable us to carry out the production of highly qualitative products in a stipulated time frame. In addition to this we also acknowledge a team of professionals who study clients requirements and come up with products that are in accordance to these requirements. Regular training is imparted to these professionals so as to keep them updated as per the ever changing needs.

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- Guide Pin Bush
- Ball Cage
- Guide Post Set
- Sleeve Ejector

Only Oil & Grease for Guide Pin Protection

DIE & MOULD TOOLS

L-shaped bayonet thermocouple

L-shaped bayonet thermocouple refers to a thermocouple sensor that has an L-shaped configuration and utilizes a bayonet-style connector for installation and secure attachment. The L-shaped design of the thermocouple probe allows for flexibility and easy positioning in applications where a 90-degree bend is required to reach the desired measurement location.

Type	K, J, E, Rtd
Temperature Range	-50 to 600 ºC
Tip	(Dia: 5 mm, Length: 25 mm)
Slot	12.5 mm Id with single slot
Wire Length	0.5 mtr to 10 mtr
Junction	Grounded, Ungrounded

L Spring rotate thermocouple sensor

Spring rotate thermocouple typically consists of a thermocouple probe mounted on a rotating mechanism and supported by a spring assembly. The spring provides controlled pressure and ensures consistent contact between the thermocouple sensor and the surface being measured.

Type	K, J, E
Temperature Range	35 to 600 ºC
Tip	(Dia: 5/6 mm, Length: 100/150/200 mm)
Slot	12.5 & 14.5 Id with single/double slot
Wire Length	0.5 mtr to 10 mtr
Junction	Grounded, Ungrounded

LRB bayonet thermocouple

Whenever you have to use 90 degree band, then this type of sensor is used. LRB bayonet thermocouple sensor is a type of thermocouple temperature sensor that is commonly used in industrial applications for temperature measurement. It is similar to a standard bayonet thermocouple in that it has a spring-loaded bayonet cap for easy installation and removal from the process or equipment being monitored.

Type	K, J, E, Rtd
Temperature Range	-50 to 600 ºC
Tip	(Dia: 5 mm, Length: 10 to 100 mm)
Slot	12.5 mm Id with single slot
Wire Length	0.5 mtr to 10 mtr
Junction	Grounded, Ungrounded

Thermocouple

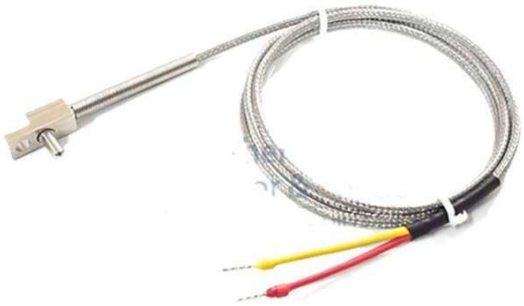
Customized Mi Thermocouple in Bayonet Fitting

Mineral-insulated bayonet thermocouple is a type of thermocouple sensor that utilizes a mineral-insulated cable construction and is designed with a bayonet-style connector for easy installation and secure attachment.

Type	K, J
Temperature Range	35 to 800 ºC
Tip	(Dia: 3/4/5 mm, Length: 25 mm)
Slot	12.5 mm Id with single/double slot
Wire Length	0.5 mtr to 10 mtr
Conduit Dia	4 to 10 mm in SS304

Manifold thermocouple

This hot runner type thermocouple is designed to suit all applications where metal sheathed thermocouples are required. With the flexibility and small diameters in which they are available, the hot runner thermocouples can be used in locations that are not easily accessible. The unique design of the Hot Runner temperature sensors are especially ideal for applications where the metal sensor tip is fitted directly into a drilled hole or press fitted into a grooved channel along the machined parts.



Type	K, J, T, Rtd
Temperature Range	35 to 600 ºC
Tip	(Dia: 4 mm, Length: 15 mm)
Wire Length	0.5 mtr to 10 mtr
Wire insulation	SS braded, Teflon, Fiberglass, Kapton
Junction	Grounded, Ungrounded

Washer/ring thermocouple sensor

Washer/ring thermocouple is a specialized type of thermocouple used for surface temperature measurement. It features a flat, metal lug or plate that makes direct contact with the surface being measured. This design ensures accurate and reliable temperature readings by optimizing thermal conductivity between the thermocouple and the surface.

Type	J, K, T, E, Rtd
Temperature Range	-50 to 600 ºC
Ring Id	6 or 8 mm
Ring Od	12 mm
Wire Length	0.5 mtr to 10 mtr
Junction	Grounded, Ungrounded

Thermocouple

Skin type weldpad temperature sensor

Skin type thermocouple is a type of thermocouple probe that is designed to measure surface temperatures of a material. It is commonly used in industries such as manufacturing, automotive, and aerospace where surface temperature measurement is critical for quality control and safety purposes.

Type	K, J, E, T
Temperature Range	-50 to 600 ºC
Weldpad Moc	SS304, SS316
Sheath	1.0, 1.5, 2.0, 3.0, 4.5 & 6 mm dia
Wire Length	0.5 mtr to 10 mtr
Junction	Grounded, Ungrounded

Pipe clamp type / nozzle thermocouple

Pipe clamp/nozzle thermocouple is a type of temperature sensor that is designed to measure the temperature of pipes and other cylindrical objects. It consists of a thermocouple probe, which is attached to a clamp that can be securely fastened onto the surface of a pipe.

Type	K, J, T, Rtd
Temperature Range	-100 to 400 ºC
Mounting	Hose clamp
Clamp Id	13-20, 20-30, 50-100, 100-150 MM
Wire Length	0.5 mtr to 10 mtr
Junction	Grounded, Ungrounded

Lug thermocouple for surface measurement

Ring lug thermocouple is designed to provide a secure and reliable connection to the surface, ensuring accurate temperature readings. The lug is typically equipped with holes or slots for screws or bolts to pass through, allowing for easy installation and firm attachment to the surface. This design ensures good thermal contact between the thermocouple and the surface, enabling accurate temperature sensing.

Type	J, K, T, E, Rtd
Temperature Range	-50 to 500 ºC
Ring Id	3 to 10 mm
Probe Material	Nickel plated copper
Wire Length	0.5 mtr to 10 mtr
Junction	Grounded, Ungrounded

Thermocouple

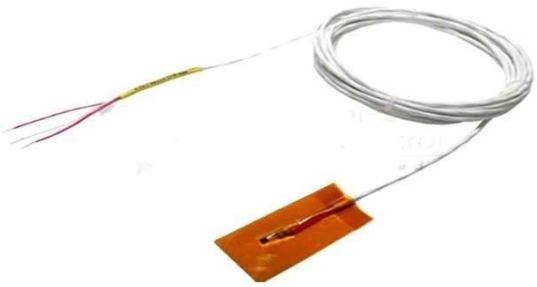
Bearing temperature sensor

Bearing temperature sensor is a device used to measure the temperature of bearings in machinery and equipment. It is typically installed on or near the bearing housing to monitor the temperature of the bearing surfaces. The sensor is designed to detect excessive heat or temperature changes in the bearings, which can indicate potential issues such as lubrication problems, bearing wear, or mechanical faults.

Type	K, J
Temperature Range	35 to 260 ºC
Tip Dia	3/4/5/6 mm
Tip Length	5 to 15 mm
Wire Length	0.5 mtr to 10 mtr
Junction	Grounded, Ungrounded

Stick-on Temperature sensor

Stick-on temperature sensor is a compact and adhesive-backed device used for measuring the temperature of a surface. It is designed to be easily attached to the desired location, providing quick and convenient temperature monitoring. These sensors often utilize technologies such as thermocouple or resistance temperature detectors (RTDs) to accurately measure temperature.



Type	K, J, Rtd
Temperature Range	-70 to 260 ºC
Tape Material	Kapton
Wire Insulation	Teflon & Kapton
Wire Length	0.5 mtr to 10 mtr
Junction	Grounded, Ungrounded

Push-in thermocouple with long tip

Push-in thermocouple with a long tip is a user-friendly solution for easy and accurate temperature measurement. Its push-in design allows for quick and hassle-free installation, while the long tip ensures optimal contact with the surface being measured. This thermocouple is suitable for industrial applications where accessibility is a challenge.

Type	J, K, T, E, Rtd
Temperature Range	-50 to 500 ºC
Tip	(D : 4 to 6 mm, L : 20 to 100 mm)
Thread Connection	1/4 , 3/8, 1/2, M6, M8, M12 etc...
Wire Length	0.5 mtr to 10 mtr
Junction	Grounded, Ungrounded

Thermocouple

Screw in thermocouple

Bolt-type thermocouples are a type of temperature sensor that are designed to be bolted or clamped directly onto a surface to measure temperature.These thermocouples are commonly used in applications where temperature measurement is required in a fixed location, such as in engines, turbines, or other machinery.

Type	K, J
Temperature Range	35 to 500 ºC
Thread	M6, M8, M10, 1/4 BSW etc...
Thread MOC	Brass / SS
Wire Length	0.5 mtr to 10 mtr
Junction	Grounded, Ungrounded

Butterfly bolt type temperature sensor

Butterfly Bolt thermocouples are mostly available in a 1/8 bsp and 1/4 bsp bolt size,Butterfly bolt thermocouples are a type of temperature sensor designed to measure the temperature of machinery, engines, and other equipment in which they are bolted directly onto a surface for contact temperature measurement.

Type	K, J
Temperature Range	35 to 500 ºC
Thread	1/8 BSP & 1/4 BSP
Thread MOC	Brass / SS
Wire Length	0.5 mtr to 10 mtr
Junction	Grounded, Ungrounded

Pencil type transition joint thermocouple

Transition joint thermocouples are commonly used in applications where one thermocouple material cannot be used due to the extreme environment, such as high temperatures, corrosive or abrasive environments, or radiation exposure. The junction is typically created by welding or brazing the two dissimilar metals together to form a transition joint.

Type	J, K, T, E, Rtd
Temperature Range	-50 to 500 ºC
Tip	(D : 3 to 12 mm, L : 20 to 500 mm)
Wire Insulation	SS braided / Teflon / Fiberglass
Wire Length	0.5 mtr to 10 mtr
Junction	Grounded, Ungrounded

Thermocouple

Thread in thermocouple sensor

Thread-in thermocouple sensors are a type of temperature sensor that can be threaded or screwed into a hole or opening in a material to measure its temperature using the thermocouple principle. The threaded design allows for easy installation and removal of the sensor, and provides a secure and stable connection to the material being measured.

Type	J, K, T, E, Rtd
Temperature Range	-50 to 500 ºC
Tip	(D : 3 to 12 mm, L : 20 to 500 mm)
Thread Size	1/4, 3/8, 1/2 & 3/4 In BSP and NPT
Wire Length	0.5 mtr to 10 mtr
Junction	Grounded, Ungrounded

Handheld digital portable indicator with thermocouple

Handheld digital thermometers are a type of temperature measurement device that are small, portable, and easy to use.These thermometers typically have a digital display screen that shows the temperature reading in realtime, along with other relevant information such as units of measurement and battery status.

Type	K, J, Rtd
Temperature Range	-50 to 1000 ºC
Probe Dia	6 to 12 mm
Probe Length	150, 200 & 250 mm
Wire Length	0.5, 1, 1.5 & 2 mtr
Junction	Grounded, Ungrounded

Exposed Junction thermocouple wire with connector

Exposed junction thermocouples are available in various wire types, such as Type K, Type T, and Type J thermocouples, depending on the temperature range and accuracy required for the application. Ideal for test & development applications. temperature range is 0 to 400 °C

Type	J, K, T, E
Temperature Range	0 to 400 ºC
Connector	Flat pin
Wire Insulation	SS braided / Teflon / Fiberglass
Wire Length	0.5 mtr to 2 mtr
Junction	Grounded

RTD Sensor

Pt100/Pt1000 simplex pencil sensor

Pt100/Pt1000 simplex pencil sensor is a type of temperature sensor used for measuring temperature with high accuracy and stability. It consists of a thin and cylindrical probe made of platinum (Pt) wire, either with a resistance of 100 ohms (Pt100) or 1000 ohms (Pt1000) at 0°C. The pencil sensor is designed for easy insertion into temperature-sensitive environments, such as liquids or gases.

Element	Pt100 (Simplex)
Temperature Range	-70 to 500 ºC
Tip	(D : 3 to 12 mm, L : 20 to 500 mm)
Wire Insulation	SS braided / Teflon / Fiberglass
Wire Length	0.5 mtr to 10 mtr
Wire Configuration	2 wire, 3 wire, 4 wire

L type RTD (Pt100) sensor

L-type RTD (Pt100) sensor is a type of resistance temperature detector designed to accurately measure temperature. It utilizes a platinum (Pt) wire with a resistance of 100 ohms at 0°C. The L-type RTD sensor features a long, straight sensing element that can be inserted into the medium being measured.

Element	Pt100 (Simplex / Duplex)
Temperature Range	-70 to 500ºC
Probe Dia	4, 5, & 6 mm
Thread Size	1/4, 3/8, 1/2 & 3/4 In BSP and NPT
Wire Length	0.5 mtr to 10 mtr
Wire Configuration	2 wire, 3 wire, 4 wire

Customize pin type rtd sensor for surface measurment

Pin-type RTD sensor, also known as a “surface RTD” or “contact RTD,” is a type of Resistance Temperature Detector that is designed for direct contact with a surface to measure its temperature. It typically consists of a small, cylindrical sensing element made of a temperature-sensitive material, such as platinum, mounted in a metal or ceramic housing.

Element	Pt100 (Simplex / Duplex)
Temperature Range	-50 to 500 ºC
Tip	(D : 3 to 6 mm, L : 10 to 50 mm)
Connection	Mounting Plate
Wire Length	0.5 mtr to 10 mtr
Material	SS304, SS316

RTD Sensor

Autoclave rtd sensor

Autoclave RTD (Resistance Temperature Detector) sensor is a type of temperature sensor specifically designed for use in autoclaves, which are high-pressure, high-temperature vessels used for sterilization and other industrial processes. Autoclaves are commonly used in applications such as medical and pharmaceutical manufacturing, where precise temperature control and monitoring are critical.

Element	Pt100 (Simplex / Duplex)
Temperature Range	-50 to 150 ºC
Probe Dia	6 mm / 8 mm (Optional)
Wire Insulation	Silicon / Silicon
Wire Length	1 mtr to 10 mtr
Sheath Material	SS316L

Duplex rtd sensor with transition joint (pencil type)

Duplex Pt100 sensors use two junctions in one sensor. Duplex Pt100s are used in applications where downtime must be kept to a minimum, one RTD element will be used until it reaches the end of its lifespan, then the wire can be quickly swapped round to the other RTD element and a replacement sensor can be ordered

Element	Pt100 (Duplex)
Temperature Range	-70 to 500 ºC
Tip	(D : 4 to 12 mm, L : 20 to 500 mm)
Wire Insulation	SS braided / Teflon / Fiberglass
Wire Length	0.5 mtr to 10 mtr
Wire Configuration	4 wire, 6 wire, 8 wire

Quick disconnect rtd sensor

Quick disconnect RTD (Resistance Temperature Detector) sensors are RTD sensors that are designed with a quick disconnect feature for easy installation and removal. These sensors are typically used in applications where frequent sensor replacement or maintenance is required, or where the sensor needs to be easily removed for calibration or cleaning purposes. Quick disconnect RTD sensors typically consist of two main parts: the sensor element and the mating connector.

Element	Pt100 (Simplex)
Temperature Range	-50 to 500 ºC
Tip	(D : 6 / 8 mm, L : 50 to 200 mm)
Connection	1/2 NPT (Optional)
Wire Length	0.5 mtr to 10 mtr
Terminational	3 Pin Flat Connector

Thermocouple

Bayonet thermocouple

J-type and K-type bayonet thermocouple is a specific type of bayonet thermocouple that uses two dissimilar metals, iron and constantan, to measure temperature. This type of thermocouple has a temperature range of 35°C to 600°C and is commonly used in industrial applications such as plastics processing, food processing, and laboratory equipment.

Type	K, J, E, Rtd
Temperature Range	-50 to 600 ºC
Tip	(Dia: 5 mm, Length: 25 mm)
Slot	12.5 mm Id with single slot
Wire Length	0.5 mtr to 10 mtr
Junction	Grounded, Ungrounded

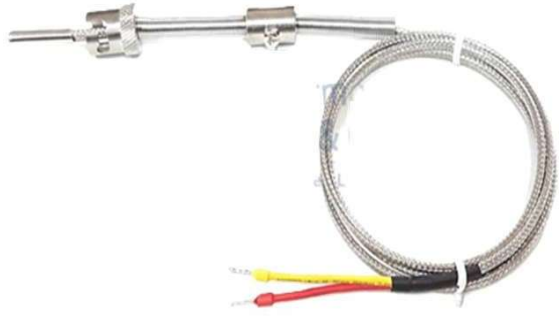
Spring holder thermocouple sensor

Spring rotating holder thermocouple typically consists of a thermocouple probe attached to a rotating holder mechanism. The rotating holder allows the thermocouple to be adjusted or positioned at various angles, enabling it to adapt to different surface orientations or hard-to-reach areas.

Type	K, J, E, Rtd
Temperature Range	-50 to 600 ºC
Tip	(Dia: 3 to 8 mm, Length: 5 to 100 mm)
Slot	12.5 & 14.5 Id with single/double slot
Spring Length	200 mm
Wire Length	0.5 mtr to 10 mtr

Compression spring thermocouple sensor

Compression spring thermocouples are commonly used in plastic machinery for temperature monitoring and control.These thermocouples are designed to withstand high temperatures and harsh environments often encountered in plastic processing equipment.



Type	K, J, E
Temperature Range	35 to 600 ºC
Tip	(D : 4 to 6 mm, L : 20 to 100 mm)
Slot	12.5 mm Id with double slot
Wire Length	0.5 mtr to 10 mtr
Adaptor	M12 * 1.5 (30 to 120 mm) (Other size also available)

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RTD Sensor

Rtd sensor for HVAC application and transformer winding

Measuring the temperature of a transformer it is necessary a sensor and equipment that converts the sensor signal into a value in degrees. where we can see the actual temperatures of each of winding with their wiring and sensors. The use of Pt100 sensor is the most widespread for dry and cast resin transformers, due to their low cost with an exceptional accuracy, quality ratio, and good performance in a lot of environments.

Element	Pt100 (Simplex)
Temperature Range	-50 to 180 ºC
Di-electric Strength	2KVAC
Wire Insulation	Teflon / Teflon
Wire Length	1 mtr to 10 mtr
Accuracy	Class B As per IEC-60751

Rtd simplex 3 wire sensor with plate mounting connection

RTD (Resistance Temperature Detector) sensor with plate mounting connection is a type of temperature sensor that is designed to be mounted onto a flat or plate-like surface for temperature measurement. he RTD sensor is typically installed onto the flat or plate-like surface using the provided mounting connection.

Element	Pt100 (Simplex / Duplex)
Temperature Range	-70 to 500ºC
Probe	(D : 5 / 6 mm, L : 25 to 200 mm)
Plate Size	50 MM (L) * 20 MM (W)
Wire Length	0.5 mtr to 10 mtr
Wire Configuration	2 wire, 3 wire, 4 wire

Screw in / Bearing rtd temperature probe with cables

Screw-in bolt temperature sensors are ideal for direct measurement of materials, bearing & machine housings whilst screw in temperature probes and industrial assemblies are intended for measuring temperatures in liquids and gases, where a reliable and robust process connection is required.Applications include Machinery, Plant, Vessel & Tank Measurement, Industrial Process Control & Pharmaceuticals

Element	Pt100 (Simplex)
Temperature Range	-50 to 500 ºC
Tip	(D : 5 mm, L : 50 mm) (Optional)
Connection	M8 (Optional)
Wire Length	0.5 mtr to 5 mtr
Accuracy	Class A or B As per IEC-60751

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RTD Sensor

Thread in Rtd Sensor

Thread-in RTD temperature probes are the preferred choice for measuring temperatures in liquidsand gases. An important factor for selecting this installation type is its ability to form reliable sealsfor vacuum and overpressure applications. The application areas are, among others, in air conditioning and refrigeration technology as well heater, furnace, and apparatus construction.

Element	Pt100 (Simplex / Duplex)
Temperature Range	-50 to 500 ºC
Probe Dia	(D : 3 to 10 mm, L : 15 to 300 mm)
Thread Connection	1/8, 1/4, 3/8, 1/2, 3/4 In BSP/NPT
Wire Length	1 mtr to 10 mtr
Accuracy	Class A or B As per IEC-60751

Stator winding rtd

Stator winding RTD (Resistance Temperature Detector) is a type of temperature sensor used in electric motors, generators, and other rotating machinery to measure the temperature of the stator winding. The stator winding is a critical component of these machines, and monitoring its temperature is important for preventing overheating and ensuring safe and efficient operation.

Element	Pt100 (Simplex)
Temperature Range	Up to 200ºC
Body Material	Epoxy Fiberglass
Di-electric Strength	Up to 5KV
Wire Length	0.5 mtr to 5 mtr
Accuracy	Class A As per IEC-60751

Temperature sensor for textile industries

RTD (Resistance Temperature Detector) sensors are commonly used in textile industries for temperature measurement and control in various processes. RTDs offer high accuracy, sensitivity, and stability, making them wellsuited for demanding textile applications where precise temperature control is critical. Here are some key considerations for using RTD sensors in textile industries..

Element	Pt100 (Simplex)
Temperature Range	-50 to 400 ºC
Tip	(D : 2 mm, L : 30 mm)
Connection	SS Stoper
Wire Length	1 mtr Teflon/teflon/ss braided
Wire Configuration	2 Wire

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Head Type Thermocouple & RTD Sensor

Thermocouple/rtd sensor with process connection

Thermocouple or RTD sensor with a process connection is a temperature sensor that is designed with a specific type of connection for easy installation and integration into a process or system. These sensors are typically equipped with threaded or flanged connections, allowing them to be directly mounted onto pipes, vessels, or equipment.

Type	Pt100/J/K (Simplex / Duplex)
Temperature Range	-50 to 500ºC /0 to 600ºC /0 to 1200ºC
Probe Dia	6 mm to 16 mm (Optional)
Probe Length	50 to 5000 mm
Accuracy	Class A or B As per IEC-60751
Sheath Material	SS304, SS316, SS310, Inconel etc...

Weatherproof ip65 head type temperature sensor

Weatherproof IP65 head type temperature sensor is a temperature sensing device specifically designed to withstand outdoor or harsh environmental conditions. It features an IP65-rated protective head, indicating its high degree of protection against dust and water ingress.

Type	Pt100/J/K (Simplex / Duplex)
Temperature Range	-70 to 500ºC /0 to 600ºC /0 to 1200ºC
Probe Dia	6, 8, 10, 12 mm
Probe Length	50 to 5000 mm
Thread Size	1/4, 3/8, 1/2 & 3/4 In BSP and NPT
Sheath Material	SS304, SS316, S310, Inconel etc...

Simplex or duplex thermocouple/RTD sensor

Thermocouple/RTD Sensor provides flexibility and reliability in temperature monitoring. Available in simplex or duplex configuration, it allows you to choose the best option based on your application requirements. Whether you need thermocouples or Rtd, this sensor ensures accurate temperature measurements.

Type	Pt100/J/K (Simplex / Duplex)
Temperature Range	-50 to 500ºC /0 to 600ºC /0 to 1200ºC
Connection	Without / Fix / Adjustable
Probe Dia	5, 6, 8, 10, 12 mm
Probe Length	50 to 5000 mm
Thread Size	1/4, 3/8, 1/2 & 3/4 In BSP and NPT

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Head Type Thermocouple & RTD Sensor

Mineral insulated Pt100 rtd sensor

Mineral insulated Pt100 RTD (Resistance Temperature Detector) sensor is a type of temperature sensor that is designed to provide accurate and reliable temperature measurement in harsh and extreme environments. The sensor consists of a thin, flexible cable made of a highly heat-resistant metal sheath, such as stainless steel, which contains a Pt100 sensing element. The cable is filled with a highly compressed mineral oxide insulation

Type	Pt100 (Simplex / Duplex)
Temperature Range	-50 to 600 ºC
Probe Dia	3 / 4.5 / 6 / 8 / 10 / mm
Probe Length	50 to 5000 mm
Accuracy	Class B As per IEC-60751
Sheath Materia	SS316

Flameproof head sensor with adjustable connection

Flameproof head sensor with adjustable connection is a temperature sensor designed to operate safely in potentially explosive or hazardous environments. It features a flameproof (Ex d) head that is constructed to contain any potential explosion within the enclosure, preventing it from igniting the surrounding atmosphere.

Type	Pt100/J/K (Simplex / Duplex)
Temperature Range	-70 to 500ºC /0 to 600ºC /0 to 1200ºC
Probe Dia	5, 6, 8, 10, 12 mm
Probe Length	50 to 5000 mm
Thread Size	1/4, 3/8, 1/2 & 3/4 In BSP and NPT
Sheath Material	SS304, SS316, S310, Inconel etc...

RTD / thermocouple with nipple-union-nipple (N-U-N) connection

RTD / Thermocouple sensor with a nipple-union-nipple (N-U-N) connection is a temperature sensor designed with a specific type of connection for easy installation and maintenance. The N-U-N connection consists of two nipple fittings with a union fitting in the middle, forming a convenient and secure connection point for the sensor.

Type	RTD/J/K(Simplex / Duplex)
Temperature Range	-50 to 500ºC /0 to 600ºC /0 to 1200ºC
Connection	Nipple / Nipple-union-nipple
Sheath Dia	6, 8, 10 mm
Probe Length	50 to 5000 mm
Thread Size	1/2 BSP and NPT (Optional)

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Head Type Thermocouple & RTD Sensor

Temperature sensor with bar stock threaded thermowell

RTD (Resistance Temperature Detector) sensor with a bar stock thermowell is a common configuration used for temperature measurement in industrial processes. A bar stock thermowell is a cylindrical tube made of metal, typically stainless steel, that is installed in a process pipe or vessel. The thermowell protects the RTD sensor from the process fluid or gas, while still allowing it to measure the temperature accurately.

Type	Pt100/J/K (Simplex / Duplex)
Temperature Range	-50 to 500ºC /0 to 600ºC /0 to 1200ºC
Probe Dia	6/8/10/12 mm (Optional)
Probe Length	25 to 1000 mm
Accuracy	Class A or B As per IEC-60751
Thermowell Material	SS304 / SS316 / SS310 / Inconel etc...

Pt100 sensor with stainless steel head

Pt100 sensor with a stainless steel head is a type of RTD (Resistance Temperature Detector) sensor commonly used for temperature measurement in industrial applications. The stainless steel head of the sensor provides protection for the sensing element and is highly resistant to corrosion, making it ideal for use in harsh environments. The head also typically has a threaded connection, allowing for easy installation and removal of the sensor.

Type	Pt100 (Simplex / Duplex)
Head Material	SS304 / SS316
Probe Dia	6, 8, mm (Optional)
Probe Length	50, 100, 150, 200 mm up to
Tri-clover Size	1/2" , 1" , 1.5" , 2" etc....
Sheath Material	SS316 / SS316L

Teflon and titanium sheath rtd sensor for chemical industries

Teflon and titanium sheath RTD(Resistance Temperature Detector) sensors are specifically designed for use in chemical industries, where the sensor needs to be resistant to corrosive chemicals and harsh environments. Teflon sheath RTD sensors have a Teflon (polytetrafluoroethylene) coating, which makes them highly resistant to corrosive chemicals and high temperatures.

Type	Pt100 (Simplex / Duplex)
Temperature Range	-50 to 400 ºC
Probe Length	100 / 150 / 200 / 250 / 300 mm
Head Material	Plastic (PVC)
Accuracy	Class A As per IEC-60751
Sheath Material	Teflon / Titanium

Head Type Thermocouple & RTD Sensor

Miniature small mini head rtd sensor

Miniature head RTD (Resistance Temperature Detector) sensor is a type of temperature sensor that is designed to be compact and space-saving. The head of a miniature head RTD sensor is typically small in size, making it suitable for use in applications where space is limited or where the sensor needs to be installed in a tight space. These sensors are commonly used in applications such as HVAC systems, automotive, and medical equipment, among others.

Type	Pt100/J/K (Simplex / Duplex)
Temperature Range	-50 to 500ºC /0 to 600ºC /0 to 1200ºC
Probe Dia	4/5/6/8 mm (Optional)
Probe Length	25 to 300 mm
Accuracy	Class A or B As per IEC-60751
Sheath Material	SS304 / SS316 / SS316L

Sanitary RTD with tri-clover connection

Sanitary RTD (Resistance Temperature Detector) sensor with a Tri-Clamp connection is a specialized configuration designed for use in food, beverage, and pharmaceutical applications where hygienic conditions are critical. The Tri-Clamp connection, also known as a Tri-Clover or Tric-lamp, is a standardized clamp used in the food and beverage industry to connect piping and equipment.

Type	Pt100 (Simplex / Duplex)
Temperature Range	-70 to 500ºC
Probe Dia	6, 8, mm (Optional)
Probe Length	50, 100, 150, 200 mm up to
Tri-clover Size	1/2" , 1" , 1.5" , 2" etc....
Sheath Material	SS316 / SS316L

Rtd sensor with temperature transmitter

RTD (Resistance Temperature Detector) sensor is a type of temperature sensor that measures temperature by detecting changes in electrical resistance of a metal wire or element as temperature changes. A temperature transmitter is a device that converts the signal from the RTD sensor into a standardized output signal, such as 4-20 mA or 0-10V, that can be transmitted to a monitoring or control system.

Type	Pt100 (Simplex / Duplex)
Temperature Range	-50 to 500 ºC
Connection	Without / Fix / Adjustable
Probe Dia	5, 6, 8, 10, 12 mm
Transmitter Output	4-20mA
Thread Size	1/4, 3/8, 1/2 & 3/4 In BSP and NPT

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Head Type Thermocouple & RTD Sensor

Rtd/thermocouple sensor with flange mounted connection

RTD/thermocouple sensor with a flange-mounted connection is a temperature sensor designed for easy and secure installation onto pipes, vessels, or equipment through a flanged connection. The flange provides a robust and sealed interface, ensuring proper alignment and a tight fit between the sensor and the mounting surface.

Type	Pt100/J/K (Simplex / Duplex)
Temperature Range	-70 to 500ºC/0 to 600ºC/0 to 1200ºC
Accuracy	Class A or B As per IEC-60751
Probe Length	50, 100, 150, 200,300 mm etc....
Flange Size	1" , 1.5" , 2" , 2.5" etc....
Sheath Material	SS304/SS316/SS310/Inconel etc...

RTD/thermocouple sensor with aluminium head

RTD/thermocouple sensor with an aluminum head is a temperature sensor designed with an aluminum housing or head for various industrial applications. The aluminum head provides robust protection for the sensitive components of the sensor while offering excellent heat dissipation properties. This allows for accurate and reliable temperature measurement even in high-temperature environments.

Type	Pt100/J/K (Simplex / Duplex)
Temperature Range	-70 to 500ºC /0 to 600ºC /0 to 1200ºC
Probe Dia	5, 6, 8, 10, 12 mm
Probe Length	50 to 5000 mm
Thread Size	1/4, 3/8, 1/2 & 3/4 In BSP and NPT
Sheath Material	SS304, SS316, S310, Inconel etc...

Spring loaded insert rtd/thermocouple with ceramic block

Spring-loaded insert RTD/thermocouple with a ceramic block is a temperature sensor designed for accurate and reliable temperature measurement in various industrial applications. It features a spring-loaded design that ensures consistent contact between the sensor and the surface being measured, promoting better thermal conductivity and reducing measurement errors.

Type	Pt100/K (Simplex / Duplex)
Temperature Range	-50 to 500 ºC/0 to 1200 ºC
Head Connection	M4 Screws 33mm PCD
Probe Dia	3, 6, 8 mm
Probe Length	To Suit Your Application
Sheath Material	SS316 / SS310 / Inconel

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Head Type Thermocouple & RTD Sensor

Construction Machinery thermocouple

Thermocouples are commonly used in the construction machinery industry to measure temperature in various equipment and machinery, including engines, hydraulic systems, and bearings, among others. Accurate temperature measurement is important in construction machinery to ensure that the equipment is operating safely and efficiently.

Type	Pt100/J (Simplex)
Temperature Range	-50 to 500ºC / 0 to 600ºC
Probe Dia	21 mm
Probe Length	To Suit Your Application
Tip	8 mm * 45 mm
Accuracy	Class B As per IEC-60751

Thermocouple for cement plant

Cement temperature sensors are used for monitoring purposes within the cement manufacturing industry. These sensors are typically thermocouples. Within lower temperature processes resistance thermometer devices (RTDs) can be used.

Type	J (Simplex)
Temperature Range	Up to 600ºC
Wire Configuration	2 Wire
Head	Flameproof
Head Entry	Double Side 3/4 ET
Immerstion	50 mm

Rapid mixer j type thermocouple

Rapid mixer thermocouple used in plastic machinery is a type of temperature sensor that is designed specifically for use in the plastic industry. It is used to measure the temperature of plastic materials during processing. thermocouple is often mounted inside a rapid mixer, which helps to ensure an accurate and representative temperature reading by rapidly mixing the plastic material as it moves through the machine.

Type	J (Simplex)
Temperature Range	Up to 600 ºC
Thread Size	M 14 * 1.5
Length	90 mm
Sheath Material	SS304
Wire Configuration	2 Wire

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High Temperature Thermocouple

High temperature leaf thermocouple

High-temperature leaf thermocouple is a type of thermocouple that is designed to measure high temperatures, typically ranging from 800°C to 1100°C. These thermocouples are made of thin, flat metal strips or “leaves” that are welded together at one end to form a thermocouple junction.

Type	K (Simplex)
Temperature Range	Up to 1100 ºC
Leaf Size	50 mm
Wire Length	To Suit Your Application
Wire Configuration	2 Wire

Molten aluminum L shaped thermocouple

Thermocouples used for measuring the temperature of molten aluminum are designed to withstand the high temperatures and corrosive environments associated with aluminum processing. Molten aluminum thermocouples typically use Type K or Type N thermocouple elements, which are composed of alloys that can withstand high temperatures.

Type	K/N (Simplex / Duplex)
Temperature Range	Up to 1200ºC
Hot Arm Od	12, 16, 19, 21, 25 mm etc....
Hot Arm Moc	SS304/310/316/446 ,Inconel, Silicon Carbide
Cold/Hot Arm Length	150, 200, 250, 300, 350, 400, 450, 500 mm
Accuracy	Class B As per IEC-60751

Ceramic sheath R/S/B/K type high temperature thermocouple

Ceramic sheath R/S/B/K type high temperature thermocouples are commonly used in high-temperature applications where the temperature range is typically between 0°C to 1700°C (32°F to 2912°F). The R-type thermocouple is composed of a platinum (Pt) wire and a platinum-rhodium (Pt-Rh) alloy wire, while the S-type thermocouple is composed of a platinum wire and a platinum-rhodium (Pt-Rh) alloy wire.

Type	K/R/S/B (Simplex / Duplex)
Temperature Range	Up to 1700 ºC
Sheath Material	Ceramic
Length	To Suit Your Application
Sheath Dia	6, 8, 10, 12, 15, 20, 25, 28 mm
Enclosure	Weather Proof / Flame Proof

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High Temperature Thermocouple

High temperature thermocouple for boiler and furnace

The most commonly used high temperature thermocouples for boiler and furnace applications are Type K and Type N. Type K thermocouples are made of chromel (NiCr) and alumel (NiAl) and are suitable for use in temperatures up to 1260°C (2300°F). Type N thermocouples are made of Nicrosil (NiCrSi) and Nisil (NiSi) and can be used in temperatures up to 1200°C (2300°F).

Type	K / N (Simplex / Duplex)
Temperature Range	Up to 1200ºC
Probe Dia	19 & 21 mm
Probe Length	300, 450, 600 etc....
Sheath Material	SS316 / SS310 / Inconel
Accuracy	Class B As per IEC-60751

Klin Thermocouple

Kiln thermocouples are used to measure temperature in high-temperature applications, such as in kilns, furnaces, and ovens. Kiln thermocouples are typically designed to withstand extreme temperatures, corrosive environments, and thermal shock. Kiln thermocouples are often protected by a sheath made of ceramic, metal or silicon carbide to withstand the harsh environment of kilns.

Type	K (Simplex)
Temperature Range	Up to 1200ºC
Wire Dia	2.6 mm / 3.2 mm
Length	200 / 250 / 300 etc....
Insulator	2 Hole * 1" Length
Connection	Ceramic Plate

L type high temperature thermocouple

L-type high temperature thermocouple is specifically designed for accurate temperature measurement in extreme industrial environments. With its durable construction and high-temperature resistance, this thermocouple provides reliable readings in challenging conditions. It is an ideal choice for applications such as furnaces, kilns, and heat treatment processes.

Type	K/R/S/B (Simplex / Duplex)
Temperature Range	Up to 1700 ºC
Sheath Material	Ceramic
Length	To Suit Your Application
Sheath Dia	6, 8, 10, 12, 15, 20, 25, 28 mm
Enclosure	Weather Proof / Flame Proof

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MI Thermocouple

Bare lead thermocouple

The bare lead thermocouple is often used in high-temperature applications where the insulation would melt or degrade. The exposed measuring end allows for a fast response time and accurate temperature measurement. However, the bare lead thermocouple is not suitable for all applications, particularly those where there is a risk of electrical shock or exposure to moisture.

Type	K (Simplex)
Temperature Range	0 to 1200ºC
Probe Dia	4, 6, 8, mm
Thread Connection	1/8, 1/4, 3/8, 1/2, 3/4 In BSP/NPT
Sheath Material	SS316 / SS310 / Inconel
Junction	Exposed, Grounded, Ungrounded

Hot runner 1 mm and 1.5 mm mi thermocouple

Hot runner system is a series of heated components that keep the plastic in a molten state as it flows through the mold, which allows for faster production cycles and better quality parts. The hot runner thermocouple is used to measure the temperature in the hot runner system and provide feedback to the temperature control system, which adjusts the temperature of the heating elements to maintain a consistent temperature.

Type	J/K (Simplex)
Temperature Range	Up to 800ºC
Sheath	0.5 / 1 / 1.5 / 2 mm
Sheath Material	SS310 / SS316 / Inconel
Joint Material	Plastic / SS potseal
Wire Length	1 / 1.5 / 2 / 2.5 / 3 mtr

L type mi thermocouple with process connection

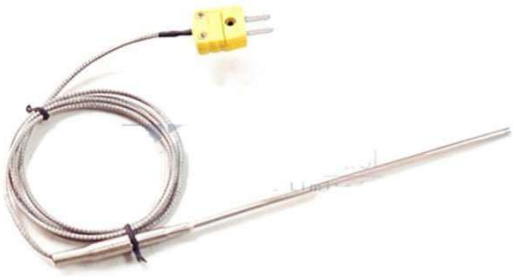
“L” type MI (Mineral Insulated) thermocouple with process connection refers to a type of temperature sensor that is commonly used in industrial applications. The “L” shape of the thermocouple is designed to allow for easy installation in pipes or vessels where temperature measurements need to be taken.

Type	J/K (Simplex)
Temperature Range	Up to 1200ºC
Sheath	3 / 4.5 / 6 / 8 mm
Sheath Material	SS310 / SS316 / Inconel
Thread Connection	1/8, 1/4, 3/8, 1/2, 3/4 In BSP/NPT
Termination	Round / Flate Pin Connector

MI Thermocouple

Transition joint MI thermocouple sensor

Transition joint MI thermocouple sensor is a type of thermocouple sensor that utilizes a transition joint and mineral-insulated (MI) construction. The transition joint acts as a connection between the thermocouple element and the extension wire, allowing for reliable and accurate temperature measurements.



Type	J/K/N (Simplex)
Temperature Range	Up to 1000 ºC
Probe Dia	1 / 1.5 / 3 mm (Optional)
Probe Length	100 / 150 / 200 / 250 / 300 etc....
Pot seal	Stainless Steel
Wire Length	1 / 2 / 3 / 4 / 5 mtr etc....

Mineral insulated rtd sensor with threaded probe

Probe of the RTD sensor is typically made of stainless steel or other suitable materials, and it is designed with threads that allow for easy installation into a process or measurement application. The threaded probe enables the sensor to be screwed into a threaded hole or fitting, providing a secure and stable connection.

Type	Pt100 (Simplex / Duplex)
Temperature Range	Up to 600ºC
Dia	6 mm / 8 mm
Length	To Suit Your Application
Head Connection	1/2 BSP / 1/2 NPT
Wire Configuration	2 Wire / 3 Wire / 4 Wire / 6Wire

Hand held k type thermocouple sensor

Handheld K-type thermocouple sensor is a portable temperature measuring device designed for easy and convenient temperature measurements using a K-type thermocouple. It typically consists of a handheld unit with a built-in digital display and a detachable probe that houses the K-type thermocouple.

Type	K (Simplex)
Temperature Range	Up to 1200 ºC
Sheath Dia	3 / 4.5 / 6 / 8 mm
Sheath Length	100 / 150 / 200 / 250 / 300 mm etc...
Sheath Material	SS310 / SS316 / Inconel
Wire	0.5/1/1.5/2 mtr With Connector

NTC - Temperature - Sensor

Ambient ntc senso

Ambient NTC temperature sensor is a type of NTC thermistor that is designed to measure the temperature of the surrounding environment or ambient temperature. Ambient temperature sensors are commonly used in HVAC systems, industrial equipment, and other applications where it is important to monitor the temperature of the air or other surrounding materials.

The NTC thermistor used in an ambient temperature sensor typically has a resistance of 10,000 ohms at 25°C and its resistance decreases as the temperature increases. The change in resistance of the thermistor is measured using a Wheatstone bridge or other ircuitry that is designed to convert the resistance change into a temperature measurement.

Automotive NTC temperature sensors

Automotive NTC (Negative Temperature Coefficient) temperature sensor is a type of thermistor that is commonly used in automotive applications to measure temperature. NTC thermistors are known for their high sensitivity and small size, making them ideal for use in automotive systems.

Automotive NTC temperature sensors are typically used to measure the temperature of engine coolant, air intake, and ambient air. They work by changing their resistance as the temperature changes, which is then measured using a Wheatstone bridge or other circuitry to provide an accurate temperature reading.

Surface mount ntc sensor

Surface mount NTC sensors are a type of temperature sensor that use a negative temperature coefficient (NTC) thermistor to measure temperature changes. These sensors are mounted directly onto the surface of a printed circuit board (PCB) or other surface using soldering techniques, and are typically used in applications where space is limited.

Surface mount NTC sensors are commonly used in electronics applications such as temperature sensing and compensation in consumer electronics, industrial automation, automotive and medical applications. They are available in a variety of sizes and shapes to suit different application requirements, and can be used in temperature ranges from -40°C to 125°C or higher, depending on the specific sensor.

Thermowell

Flanged thermowell

Flanged thermowell is a device used in temperature measurement and control applications. It consists of a tube or pipe made of metal, such as stainless steel, that is installed into a process piping system or vessel. The thermowell protects the temperature sensor, such as a thermocouple or RTD (resistance temperature detector), from the harsh process environment, while still allowing the sensor to accurately measure the temperature of the process fluid.

Flange Size	1" , 1.5" , 2" , 2.5" , 3" etc...
Class	150,300,600,900 etc....
Shank Style	Stepped / Straight / Tapered
Material	SS304, SS316, SS316L etc....
Insertion Length	To Suit Your Application
Instrument Connection	1/2 NPT / 3/4 NPT (F)

Threaded thermowell

Threaded thermowell is a device used in temperature measurem-ent and control applications. It consists of a tube or pipe made of metal, such as stainless steel, that is threaded and installed into a process piping system or vessel. The thermowell protects the temperature sensor, such as a thermocouple or RTD (resistance temperature detector), from the harsh process environment, while still allowing the sensor to accurately measure the temperature of the process fluid.

Process Connection	1/2 BSP , 1/2 NPT , 3/4 BSP etc....
Female Thread	1/4 , 3/8 , 1/2 , 3/4 BSP/NPT etc...
Shank Style	Stepped / Straight / Tapered
Material	SS304, SS316, SS316L etc....
Insertion Length	To Suit Your Application
Probe Dia	10 / 12 / 14 / 16 etc....

Weld-in thermowell

Weld-in part of the thermowell is designed to be welded directly into a hole in the piping system or vessel. This provides a perm-anent and secure connection, making it suitable for high-pressure and high-temperature applications. Weld-in thermowells come in various sizes and materials to accommodate different process conditions, such as high pressures or corrosive fluids.

Female Thread	1/4 , 3/8 , 1/2 , 3/4 BSP/NPT etc...
Probe Dia	10 / 12 / 14 / 16 etc....
Shank Style	Stepped / Straight / Tapered
Material	SS304, SS316, SS316L etc....
Insertion Length	To Suit Your Application
Bore Dia	6.5 mm , 8.5 mm , 10.5 mm

Rtd cable

Teflon/teflon 3 core rtd cable

Teflon, also known as PTFE (polytetrafluoroethylene), is a synthetic material known for its high temperature resistance, chemical resistance, and excellent electrical insulation properties. Teflon wire is a type of electrical wire that is coated with a layer of Teflon insulation. Teflon wire is commonly used in applications where high heat, harsh chemicals, and electrical insulation are critical, such as in aerospace, automotive, and industrial equipment.

Silicon/silicon rtd cable

Silicone is a synthetic rubber material known for its high-temperature resistance, flexibility, and excellent electrical insulation properties. Silicone wire is a type of electrical wire that is coated with a layer of silicone insulation. Silicone wire is commonly used in applications where high temperatures, harsh chemicals, and electrical insulation are critical, such as in automotive, aerospace, and industrial equipment.

Teflon/teflon 6 core rtd cable

Teflon, also known as PTFE (polytetrafluoroethylene), is a synthetic material known for its high temperature resistance, chemical resistance, and excellent electrical insulation properties. Teflon wire is a type of electrical wire that is coated with a layer of Teflon insulation. Teflon wire is commonly used in applications where high heat, harsh chemicals, and electrical insulation are critical, such as in aerospace, automotive, and industrial equipment.

Teflon/teflon ss rtd cable

Teflon, also known as PTFE (polytetrafluoroethylene), is a synthetic material known for its high temperature resistance, chemical resistance, and excellent electrical insulation properties. Teflon wire is a type of electrical wire that is coated with a layer of Teflon insulation. Teflon wire is commonly used in applications where high heat, harsh chemicals, and electrical insulation are critical, such as in aerospace, automotive, and industrial equipment.

Teflon/teflon/shielded/teflon rtd cable

Teflon, also known as PTFE (polytetrafluoroethylene), is a synthetic material known for its high temperature resistance, chemical resistance, and excellent electrical insulation properties. Teflon wire is a type of electrical wire that is coated with a layer of Teflon insulation. Teflon wire is commonly used in applications where high heat, harsh chemicals, and electrical insulation are critical, such as in aerospace, automotive, and industrial equipment.

Thermocouple wire

Fiberglass/fiberglass/ss braided thermocouple wire

Fiberglass is a type of material made from glass fibers that are woven into a fabric or spun into a thread. It is a lightweight and strong material that is commonly used in the construction of boats, aircraft, and automobiles, as well as in the production of insulation and other building materials. Fiberglass wire is a type of wire that is coated with a layer of fiberglass insulation.

Kapton/kapton thermocouple wire

Kapton is a brand name for a type of polyimide film that is known for its high temperature resistance, chemical resistance, and electrical insulation properties. Kapton film is often used in a variety of applications, such as in the production of flexible printed circuit boards, aerospace components, and insulation for electrical motors.

PVC/PVC thermocouple wire

PVC, or polyvinyl chloride, is a synthetic plastic material that is widely used in the production of various products, including pipes, wire insulation, flooring, and more. PVC is known for its durability, versatility, and affordability. PVC wire is a type of electrical wire that is coated with a layer of PVC insulation. PVC wire is one of the most common types of wire used in residential and commercial applications due to its low cost and easy availability.

Teflon/teflon wire thermocouple wire

Teflon is a brand name for a type of synthetic fluoropolymer material that is known for its high heat resistance, chemical resistance, and non-stick properties. Teflon is often used in a variety of applications, such as in the production of non-stick cookware, industrial coatings, and electrical insulation.

Teflon/teflon/ss braided thermocouple wire

Teflon/PTFE wire with stainless steel braiding is a type of wire that combines the benefits of both Teflon/PTFE insulation and stainless steel braiding. The Teflon/PTFE insulation provides high temperature and chemical resistance, while the stainless steel braiding provides additional protection against mechanical stress and abrasion.

Accessories

Bayonet adaptor

Threaded bayonet adaptor for use with bayonet style thermocouples or temperature probes. This thermocouple adaptor consists of a male thread for process mounting and a bayonet style pin for attaching to the mating cap. The thermocouple is simply inserted and locked into the adapter which holds the sensing tip firmly in place in the process or against the surface it is measuring.

Bayonet adapters are designed to provide a quick and secure connection, often with a twist-and-lock mechanism that ensures a tight fit. They are typically easy to install and remove without the need for additional tools, making them convenient for various applications.

Temperature transmitter

head-mounted temperature transmitter is a type of industrial instrumentation device that is used to convert temperature signals from temperature sensors, such as thermocouples or RTDs (Resistance Temperature Detectors), into standardized electrical signals, typically 4-20 mA, that can be transmitted to a control system, data logger, or other monitoring and control devices.

Head-mounted temperature transmitter is typically designed to be mounted on a standard DIN rail or directly on the head of a temperature sensor, such as a thermocouple or RTD. It may have a compact, ruggedized design with a variety of features, including signal conditioning, amplification, linearization, and galvanic isolation, to ensure accurate and reliable temperature measurement and transmission.

Panel mounted temperature transmitter

panel-mounted temperature transmitter is a device used to measure and convert temperature signals into standard analog or digital signals that can be easily monitored or transmitted to other systems. It is typically installed on a control panel or a wall-mounted enclosure in industrial processes where temperature monitoring is critical. These electronics convert the conditioned analog signal into a standardized output signal, such as 4-20 mA current loop or 0-10 VDC voltage, which can be easily interpreted by other control systems or devices.

The transmitter includes a temperature sensor such as a resistance temperature detector (RTD) or a thermocouple. The sensor is in direct contact with the substance or environment whose temperature needs to be measured. The transmitter has built-in circuitry to condition and amplify the weak signal from the temperature sensor. This circuitry helps to improve the accuracy and stability of the temperature measurement.

Connectors

Miniature flat pin thermocouple and rtd connector

Miniature flat pin thermocouple and RTD connector is a type of electrical connector used to connect thermocouples or RTDs (Resistance Temperature Detectors) to measurement or control devices in temperature sensing applications. These connectors are typically small in size and have flat pins or blades that are designed for easy insertion into corresponding receptacles or jacks.

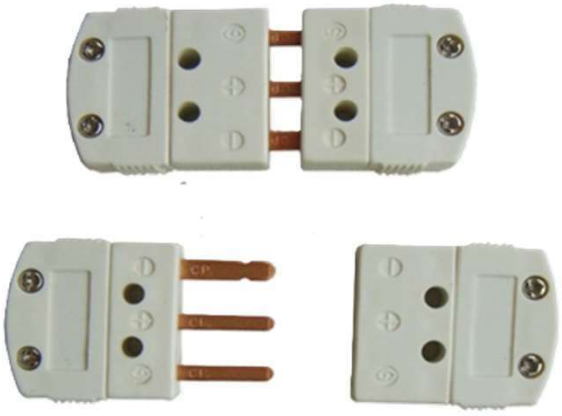
Miniature flat pin thermocouple and RTD connectors are commonly used in various industries, such as HVAC, industrial process control, automotive, aerospace, and scientific research, where accurate and reliable temperature measurement is required. They provide a secure and reliable electrical connection between the temperature sensor and the measurement or control device,allowing for accurate temperature readings and precise temperature control.

Round pin thermocouple connector

Round pin thermocouple connector is a type of connector used to connect and disconnect a thermocouple sensor to a measuring or control device. Thermocouples are temperature sensors that generate a voltage signal based on the temperature difference between two junctions of different metals. The round pin thermocouple connector typically consists of two parts: a male connector and a female conn ector. The male connector has round pins, while the female connector has corresponding round pin sockets. The number of pins can vary depending on the type and configuration of the thermocouple.

Round pin thermocouple connectors are commonly used in industrial applications where temperature measurement and contro l are critical, such as in manufacturing processes, power plants, and laboratory equipment. The round pin design ensures proper polarity and reduces the risk of accidental disconnection or misalignment, which could lead to inaccurate temperature readings.

Miniature flat pin rtd connector



3-pin RTD (Resistance Temperature Detector) miniature connector is a type of connector used to connect RTD sensors to measurement or control devices. RTDs are temperature sensors that operate based on the principle that the electrical resistance of certain metals changes with temperature.

The 3-pin RTD miniature connector typically consists of a male connector and a female connector. The male connector has three pins, while the female connector has corresponding sockets. The pins and sockets are designed to provide a secure and reliable electrical connection.

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