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# Thermocouples with Extension Wire Model 601

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## Thermocouples with Extension Wire Model 601

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### Protection Tube

Construction	Closed-End tube
Material	Stainless Steel 304, 316
Insertion length "L" in mm	Order in different lengths
Outside diameter "D" in mm	Order in different diameter
Process connection	1/4", 1/8", 5/16"

### Sensor Type

Calibration K	Nickel-Chromium/Nickel-Aluminum
Calibration J	Iron (Fe) / Constantan (Cu-Ni)
Calibration E	Nickel-Chromium / Copper-Nickel
Calibration N	Nicrosil / Nisil
Calibration T	Copper / Copper-Nickel
RTD (pt100 - pt1000)	Specify by customer
Accuracy	According to IEC 584-1 / DIN 43710
Number of sensors	Simplex or Duplex

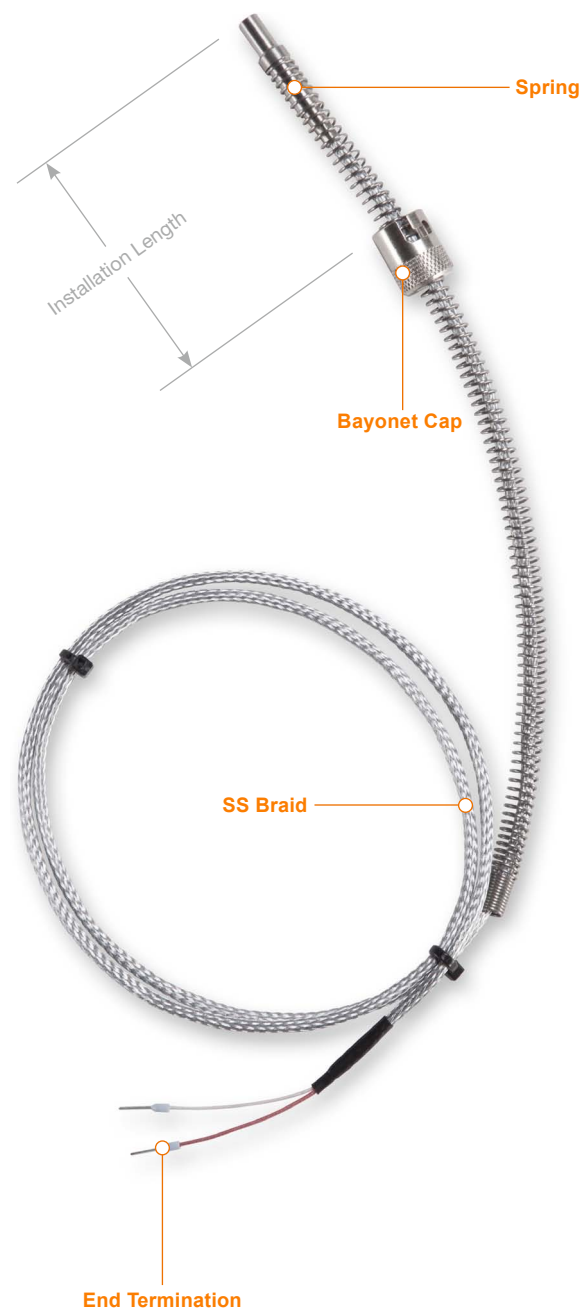
### Configuration

Pipe / Tube Clamp
Metal Sheath (Std.: High-Grade Steel)
Small Welding Plate
Touch Sensor
Screw Threaded Sensor
Non Standard Construction (e.g. Magnet)

### End Termination

Free Ended (Non-Tin-Plated)
Soldered Ends
Ends with Cable End Sleeves
Standard Plug / Socket Connector
Miniature Plug / Socket Connector
Ceramic Standard Plug /Socket Connector

**Individual Solutions such as for example materials, process connectors, accessories, etc. not listed here, are often viable. Please contact us for further information!**



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## Technical Information

### Thermocouple Probe with Lead Wire

Thermocouple Probes with a Transition to Lead Wire are one of most utilized thermocouple designs utilized throughout industry and research due to the diversity of the basic design configuration. A rigid and rugged sensor at one end and flexible wire leads at the opposite end.

Another type of thermocouple that is very physically diverse is the thermocouple with an interface cable.

In this type of thermocouple, the wire or interface cable is coupled directly to the tip of the protective sheath and is very suitable due to its small volume and simple installation in places where there is not enough space for installation. Important when buying this type of thermocouple.

An infinite number of configurations can be achieved to the support temperature measurement requirements with the potential customizations of probe and lead wire lengths, diameters, sheaths and insulation along with the thermocouple type itself and junction.

### Typical Applications

- Food processing equipment
- De-icing
- Plating baths
- Industrial processing
- Medical equipment
- Pipe tracing control
- Industrial heat treating
- Packaging equipment
- Liquid temperature measurement
- Refrigerator temperature control
- Oven temperature control

**We manufacture types thermocouples to your specifications or as replacements to existing sensors. We have manufactured thermocouples for near 15 years and are solely focused on the design and manufacture of temperature sensors.**



Thermocouple



## Options

### Adjustable Spring Style

Adjustable spring style thermocouples bend to any angle to fit a wide range of hole depths, eliminating the need to stock numerous styles.

### Adjustable Armor Style

Adjustable armor thermocouples bend to any angle to fit a wide range of hole depths, eliminating the need to stock numerous styles. A stainless steel hose offers additional lead protection in demanding applications.

### Rigid Sheath Style (1/8 and 3/16 in. Diameter)

The rigid sheath provides protection and accurate placement through bulkheads or platens. Use with a compression fitting for water tight immersion application.

The bent rigid tube offers protection and accurate lead placement around machinery.

### Rigid Sheath with Threaded Fitting Style

Rigid sheath with threaded fitting provides accurate placement in process applications.

### Flange Style

The flanged thermocouple allows rapid assembly and low profile when going through bulkheads.

### Rigid Sheath Fixed Bayonet Style

Bayonet fittings allow rapid attachment. Spring pressure on the junction tip assures fast response time. This style of bayonet fitting connects quickly and allows leads to exit with a protective sheath.

### Large Diameter Rigid Sheath Style

The rigid sheath provides protection and accurate placement through bulkheads or platens. Use with a compression fitting for water tight immersion application.

### Flexible Extensions Style

Flexible extensions allow thermocouples to be disconnected from a system without disturbing the remaining wiring.

### Ring Terminal Style

The nickel terminal can be placed beneath existing screws or bolts to permit surface temperature measurement.

### Nozzle Style

The nozzle thermocouple has a short installation depth and a low profile to allow control of thin platen sections.

### Pipe Clamp Style

The stainless steel clamp allows temperature measurement without drilling or tapping which is ideal for measuring pipe temperatures.

### Grommet Style

The extremely low profile of the stainless steel grommet provides fast response time.

### Brass Shim Style

The shim stock thermocouple has a low profile and can be placed between components for surface temperature measurement.

### Stainless Steel Shim

The shim stock thermocouple has a low profile and can be placed between components for surface temperature measurement.

### Insulated Wire, Styles 61 and 62

Constructed with SERV-RITE insulated thermocouple wire, Styles 61 and 62, are economical and versatile and can be ordered with an exposed or protected measuring junction.

### Perfluoro alkoxy (PFA) Encapsulated Style

The rigid sheath is covered with a 0.010 in. (0.25 mm) wall of PFA for corrosion resistance in acid environments. An epoxy seal improves moisture resistance of the sensor and provides a barrier for migrating fumes in corrosive applications.

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