

## SD Series

*Thermocouple, PT100/1000, NTC  
under stainless steel tube*

Ref : 2167

Rev : B



### DESCRIPTION

This probe model is highly accurate and ideal for temperature measurements in solid, liquid or gaseous environments. Probe under rigid stainless-steel tube.

MESUREX is a sensor manufacturer. We can adapt most sensors to your needs. Please [contact us](#).

K Green

J Black

T Brown

N Pink

E Purple

R/S Orange

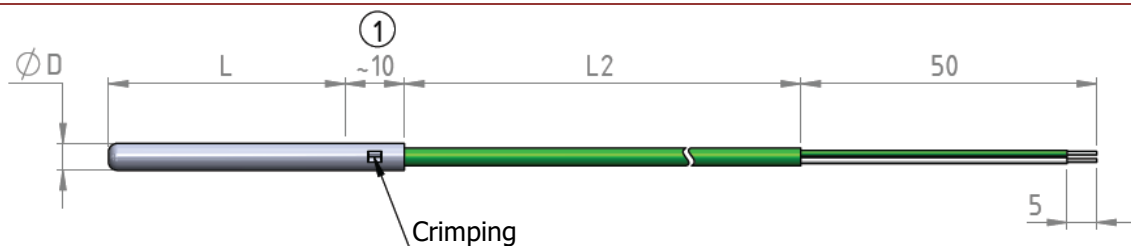
B Grey

Cu White

### TECHNICAL CHARACTERISTICS

| PARAMETERS              | SECURITIES                                                                                                                                                                                                                           |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type                    | PT100 (single or double) / PT1000 (single or double) / CTN 10kΩ (single) / Thermocouple type K, J, T, E, N, S (single or double)                                                                                                     |
| Temperature range       | - 60°C to 250°C (see special options)                                                                                                                                                                                                |
| Nature of the sheath    | Stainless steel 304 (other on request)                                                                                                                                                                                               |
| Nature of the extension | Shielded Teflon (other on request)                                                                                                                                                                                                   |
| Precision               | PT100 / PT1000: Class A according to NF EN 60751 standard (other on request)<br>CTN 10kΩ : ± 0.3%<br>Thermocouple: Class 1 according to NF EN 60584-1 standard                                                                       |
| Diameter                | 3 / 6 mm standard<br>On request: 1.5 mm minimum for CTN 10kΩ<br>1.5 mm minimum for PT100 / PT1000 single<br>3 mm minimum for PT100 / PT1000 double<br>3 mm minimum for single thermocouple<br>4.5 mm minimum for double thermocouple |
| Sheath length           | 50 / 100 / 300 / 500 mm standard (other on request – maximum 500 mm)                                                                                                                                                                 |
| Extension length        | 2 m standard (other on request)                                                                                                                                                                                                      |
| Connection              | Bare wires standard (specific connector on request)<br>PT100 / PT1000 simple: 3-wire mounting standard (2 or 4 wires on request)<br>PT100 / PT1000 double: 2-wire mounting standard (3 or 4 wires on request)                        |

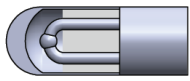
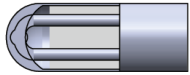
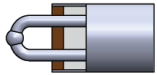
### DIMENSIONS



- ① Crimping area around 10mm  
In case of use of a heat-shrink sleeve, this area is also 10 mm  
In case of use of a reinforcement spring, this area extends to 20 mm

## CABLING (thermocouple)

## HOT SPOT (thermocouple)

**Insulated  
(standard)****Grounded****Bare wire**

*Note : In the case of an apparent hot spot, the thermocouple must be used in a dry, non-conductive environment.*

| EXTENSION THERMOCOUPLE<br>COLOUR IEC584-3                                                   |        |  |          |
|---------------------------------------------------------------------------------------------|--------|--|----------|
| <b>K</b>  | Green  |  | + Green  |
|                                                                                             |        |  | - White  |
| <b>J</b>  | Black  |  | + Black  |
|                                                                                             |        |  | - White  |
| <b>T</b>  | Brown  |  | + Brown  |
|                                                                                             |        |  | - White  |
| <b>E</b>  | Purple |  | + Purple |
|                                                                                             |        |  | - White  |
| <b>N</b>  | Pink   |  | + Pink   |
|                                                                                             |        |  | - White  |
| <b>S</b>  | Orange |  | + Orange |
|                                                                                             |        |  | - White  |

## ORDER INFORMATION

**SD D N X L L2 XXX**Tube diameter (D):

**3 / 6 mm** (other on request)  
 Minimum 1.8 mm CTN 10kΩ  
 Minimum 2 mm PT100 simple  
 Minimum 4 mm PT100 double  
 Minimum 3 mm Thermocouple

Number of items:

**None:** Simple  
**2 :** double (NTC)

Probe type :

PT100 : **P**  
 PT1000 : **PX**  
 CTN 10kΩ : **CTN**  
 Thermocouple : **K / J / T / E / N / S**

**Special options**

Unique alphanumeric code

Extension length (L2):

**None:** 2 meters (standard)  
 < 1 metre: in mm  
 ≥ 1 metre: in m (**M**)

Tube length (S):

**50 / 100 / 300 / 500 mm** (other on request)  
**Note :** maximum 500 mm

## • Special options

| OPTION                       | PARAMETERS                                                                                                                                                                        |                                                                                                                                |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Hot spot (thermocouple)      | <b>Insulated (standard)</b><br>Grounded<br>Apparent                                                                                                                               |                                                                                                                                |
| Nature of the sheath         | <b>Stainless steel 304 (standard)</b><br>Stainless steel 316L<br>Other (on request)                                                                                               |                                                                                                                                |
| Coating                      | <b>None (standard)</b><br>Teflon                                                                                                                                                  | Temperature: 250°C max                                                                                                         |
| Nature of the extension      | <b>Shielded Teflon (standard)</b><br>Unshielded Teflon<br>PVC (shielded or unshielded)<br>Silicone (shielded or unshielded)<br>Glass silk (shielded or unshielded)                | Temperature: 250°C max<br>Temperature: 250°C max<br>Temperature: 105°C max<br>Temperature: 300°C max<br>Temperature: 480°C max |
| Connector Type               | <b>None (standard)</b><br>Miniature male<br>Miniature female<br>Standard male<br>Standard female<br>Ultra-miniature male<br>Ultra-miniature female<br><br>Other type of connector | <b>200°C max (standard)</b><br>High temperature (350°C max)<br>Ceramic (650°C max)<br><br>( <a href="#">contact us</a> )       |
| PT100/PT1000 mount           | <b>3 wires (standard)</b><br>2 wires<br>4 wires                                                                                                                                   |                                                                                                                                |
| PT100/PT1000 <b>Accuracy</b> | <b>Class A (standard)</b><br>Class B<br>Class AA                                                                                                                                  | According to NF EN 60751 standard                                                                                              |
| Cable output protection      | <b>No (standard)</b><br>Heat-shrink sleeve<br>Spring                                                                                                                              | 200°C max – Version IP67                                                                                                       |
| Sealing                      | <b>IP 50 (standard)</b><br>IP67                                                                                                                                                   |                                                                                                                                |

- Exemple : SD2P300
- PT100 probe
  - Under stainless steel tube
  - Diameter 2 mm
  - Length 300 mm
  - Shielded Teflon extension
  - Length 2 m
  - 3-wire mounting
  - Bare wire output
  - Class A according to NF EN 60751 standard

## CONTACT

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