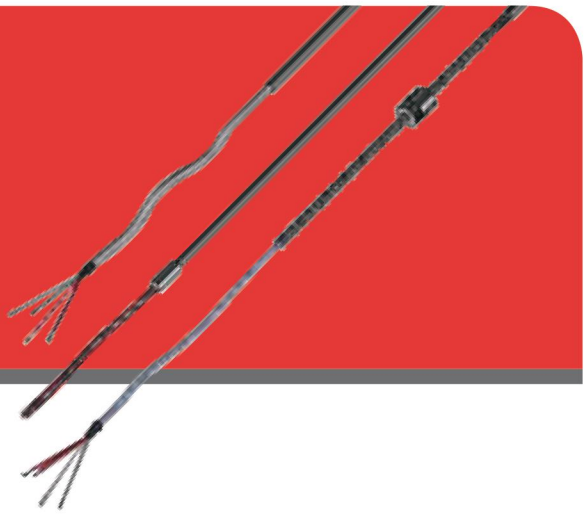
# Temperature Sensor



## Mineral insulated RTD / thermocouple

### Features

Temperature sensor for high temperature range
MI materials and AISI 316L
RTD(pt100) or thermocouple
Ex certified temperature sensor

### Specification

| Marking | Ambient Temperature | T Class |
|---|---|---|
| Ex eb IIC T6…T4 | -40°C to +80°C | T6 |
| | -40°C to +95°C | T5 |
| | -40°C to +130°C | T4 |

Temperature sensor:
W-M-303-ⓐ/ⓑ-ⓒ/FDF-4-A-Ex : Pt100
T-M-303-ⓐ/ⓑ-ⓒFDS-Z-1-Ex : Thermocouple K or N type
Max. measuring current : 10mA
Temperature range : -60°C ...+450°C Temporary +550 °C
Diameter of sensor probe : 3mm, 6mm, 8mm
Tinned copper connection Wires : 0.22mm$^2$
Max. service temperature (connection to MI cable) : +130°C
Max. service temperature (end sleeve) : +105°C

### Selection Code

W - M - 3 0 3 - ⓐ / ⓑ - ⓒ / F D F - 4 - A - E x

| | |
|---|---|
| ⓐ | Sensor probe diameter<br>3.0mm<br>6.0mm<br>8.0mm |
| ⓑ | Probe length in millimeter, min. 30 |
| ⓒ | Lead cable length in millimeter, min. 50 |

T - M - 3 0 3 - ⓐ / ⓑ - ⓒ / F D S - Z - 1 - E x

| | |
|---|---|
| ⓐ | Sensor probe diameter<br>3.0mm<br>6.0mm<br>8.0mm |
| ⓑ | Probe length in millimeter, min. 10 |
| ⓒ | Lead cable length in millimeter, min. 50 |

### Certification

## Stainless steel RTD

### Features

Temperature sensor for multiple temperature measurement purposes
MI materials and AISI 316L
Pt100, accuracy class A
Ex certified temperature sensor

### Specification

| Marking | Ambient Temperature | T Class |
|---|---|---|
| Ex eb IIC T6…T3 | -40°C to +80°C | T6 |
| | -40°C to +95°C | T5 |
| | -40°C to +130°C | T4 |
| | -40°C to +185°C | T3 |

Temperature sensor: Pt100
Max. measuring current: 10mA
Operating temperature: -40°C ...+200°C
Diameter of sensor probe: 6mm
Tinned copper connection wires: 0.22mm$^2$

### Selection Code

ⓐ W T - K A A P E L I - 6 / ⓑ - ⓒ / T D T - 4 J - K L A - E x

| | |
|---|---|
| ⓐ | No. of sensor None : 1, 2X :2 |
| ⓑ | Probe length in millimeter, min. 30 |
| ⓒ | Lead cable length to end sleeve in millimeter, min. 50 |

### Certification

## Bayonet RTD

### Features

Spring-loaded bayonet sensor for measuring temperature
MI materials and AISI 316L
Pt100
Ex certified temperature sensor

### Specification

| Marking | Ambient Temperature | T Class |
|---|---|---|
| Ex eb IIC T6…T3 | -40°C to +80°C | T6 |
| | -40°C to +95°C | T5 |
| | -40°C to +130°C | T4 |
| | -40°C to +185°C | T3 |

Temperature sensor: Pt100 x 1, or Pt100 x 2
Max. measuring current: 10mA
Operating temperature: -40°C ...+200°C
Diameter of sensor probe: 6mm, 8mm
Tinned copper connection wires: 0.22mm$^2$

### Selection Code

ⓐ W T - B A J O N E T T I - ⓑ / ⓒ - ⓓ / T D T - 4 J - K L A - E x

| | |
|---|---|
| ⓐ | No. of sensor None : 1, 2X :2 |
| ⓑ | Sensor probe diameter<br>6.0mm<br>8.0mm |
| ⓒ | Probe length in millimeter, min. 25 |
| ⓓ | Lead cable length to end sleeve in millimeter, min. 300 |

### Certification