

## Semi-Finished Thermocouple

A TCC semi finished Thermocouple sensor typically refers to a sensor component or module that has been partially manufactured but requires further assembly or integration into a larger system. The TCC Semi finished Thermocouple sensors are produced with high end components to secure a long term stability and accuracy. All sensor has been tested individually on leak tightness and functionality to secure the quality. Standard delivery including batch traceability and 3.1B certificate.

### Ordering code



| 1 No. of Thermocouples | Order code |
|------------------------|------------|
| Single                 | 1          |
| Duplex                 | 2          |
| Other                  | 3          |

| 2 Type of Element                           | Order code |
|---|------------|
| NiCr-Ni (K) IEC584 Class 1                  | <b>K</b>   |
| NiCrSi-NiSi (N) IEC584 Class 1              | <b>N</b>   |
| Cu-CuNi (T) IEC584 Class 1                  | <b>T</b>   |
| Fe-CuNi (J) IEC584 Class 1                  | <b>J</b>   |
| NiCr-CuNi (E) IEC584 Class 1                | <b>E</b>   |
| Pt10Rh-Pt (S) IEC584 Class 1                | <b>S</b>   |
| Pt13Rh-Pt (R) IEC584 Class 1                | <b>R</b>   |
| Pt30Rh-Pt6Rh (B) IEC584 Class 2             | <b>B</b>   |
| We5%Re-We26%Re (C) ASTM E230 special limits | <b>C</b>   |

| 2 Sheath material  | Order code |
|--|------------|
| AISI316L (1.4404)  | 316        |
| AISI316Ti (1.4571)   | 316Ti      |
| AISI321 (1.4541)   | 321        |
| INC600 (2.4816)  | INC600     |
| * Molybdenum   | MOLY       |
| Pt10Rh   | Pt10Rh     |
| Pt20Rh   | Pt20Rh     |
| Tantalum   | TANT       |
| Other materials on request<br>* Molybdenum is not bendable |            |

| 6 Sheath diameter                                       | Order code |
|---|------------|
| 1,5 mm  | 0150       |
| 3,0 mm  | 0300       |
| 4,5 mm  | 0450       |
| Specify the OD and noted in 4 digits ad above examples. |            |

| 7 Insert length   | Order code |
|---|------------|
| 330 mm  | 00330      |
| 1610 mm   | 01610      |
| 33125 mm  | 33125      |
| Specify the OD and noted in 5 digits ad above examples. |            |

| 8 termination                         | Description                                   | Order code |
|---------------------------------------|---|------------|
| Free ends                             | Example 15 mm = 015<br>Specified in 3 digits  | XXX        |
| Teflon lead to connect to transmitter | Specified in 3 digits<br>Example 60 mm = T060 | TXXX       |
| Din plate 33 mm                       | Standard with 60 mm Teflon leads              | D3 TB      |
| Terminal block 33 mm                  | with color marking                            | XXXX       |
| Extension cable                       | Cable type / length                           | SC         |
| Standard connector                    |   | MC         |
| Mini connector                        |   |            |

Cold end standard sealed with epoxy (t max 180°C), optional epoxy seal up to 250°C

Example 1: MI TC , type K class 1, Ø 1,5 x 1505 mm Inconel600 with 2.0 mm free ends

• SF-1K- INC600-0150-0150- 02 0

Example 2: MI TC , type 2x N , class 1 , Ø 6,0 x 655 mm Inc o nel600 with terminal block

• SF-2N- INC600-0600-0065- TB