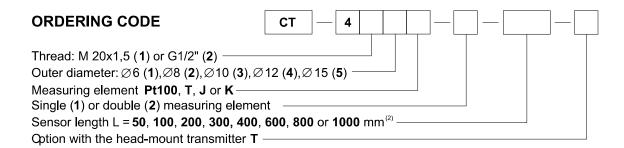


TEMPERATURE SENSOR

type CT411, 412, 413, 414, 415 type CT421, 422, 423, 424, 425

| SPECIFICATION | | | | | 55 |
|--|------------------------------|------------------------|-----------------------|----------|-----|
| Temperature range | –40°C+550°C | (Pt100) | | | |
| | –40°C+400°C | (T) | | | 1 |
| | –40°C+600°C | (J) | | | -1 |
| | –40°C+900°C | (K) | | | |
| Measuring element | platinum resistor | (Pt100) ⁽¹⁾ | | | 0 |
| | thermocouple Cu-CuNi | (T) | | | 100 |
| | thermocouple Fe-CuNi | (J) | | | |
| | thermocouple NiCr-NiAl | (K) | | | |
| Class ofprocessing element | 2 (B) ⁽¹⁾ | | | | -1 |
| Conductor material | wire Cu/Ni (for Pt100) | | M | _ | |
| Assembly | 2,3 or 4 wires (for Pt100 |) | | | |
| Measuring junction | insulated ⁽¹⁾ | | M ⁽³⁾ | J | |
| Sheath material | steel 1.4541 | | M20x1,5 | | |
| Roughness of sheath surface | R_a < 0,8 μ m $^{(2)}$ | | G1/2" | | |
| Maximum operating pressure | see the Sheath Operating | າg Loadsື | | | |
| | information | | | | |
| Connection head type | MA or B ⁽⁴⁾ | | Ø | | _ |
| Head operating temperature | –40°C+100°C | | - | | |
| Fitting | welded stationary with the | nread | | | |
| | M20x1,5 or G1/2" (3) | | - (5) | | |
| Additional accessories | thermowell for welding | | Ø (mm) ⁽⁵⁾ | | |
| | temperature transmitter | <u> </u> | 6 | | |
| | compensation cable | | 8 10 | | |
| (1) DUEGO DUAGOO NUAGO NUAGOO | | | 12 | | |
| (1) Pt500, Pt1000, Ni100, Ni1000 on demand | | | 15 | | |
| ⁽²⁾ Other parameters according to customer r ⁽³⁾ Other inch and metric threads on demand | | | | | |
| Outer more and metric unleads off demand | | | | | |



(4) Connection head with protection class IP65 or acid resistant on demand

 $^{\text{(5)}}$ Protection tube of outer diameter \varnothing 9 and \varnothing 11mm on demand

Example for order

CT-411K-1-400 sensor with single thermocouple NiCr-NiAl (K), with connection,head type MA of outer diameter \varnothing = 6mm and length L=400mm with welded stationary fitting with thread M20x1,5. CT-411K-1-400-T; TCH-2140-K sensor with connection head type B, option with the head-mount transmitter type TCH-2140-K