

Temperature Sensors with Replaceable Measuring Inserts **TOPP-11, TTJP-11, TTKP-11**

A

Specification

Temperature range / sensing element

-200÷550°C	Pt100	class B
-40÷700°C	J	class 2
-40÷900°C	K	class 2

Measuring insert – p. 36

- 2-, 3-, 4- wire connection (for Pt100)
- 2-, 3- wire connection (for 2xPt100)
- insert length $L_w = L + 25$ mm

Thermowell

- material: stainless steel 1.4541 for [mm]: $\varnothing 9, 11, 12, 14, 15$
- material: steel 1.4841 for $\varnothing 15$ mm
- material: steel 1.4762 for $\varnothing 15$ mm
- length L [mm]: 50÷2000

Connection head

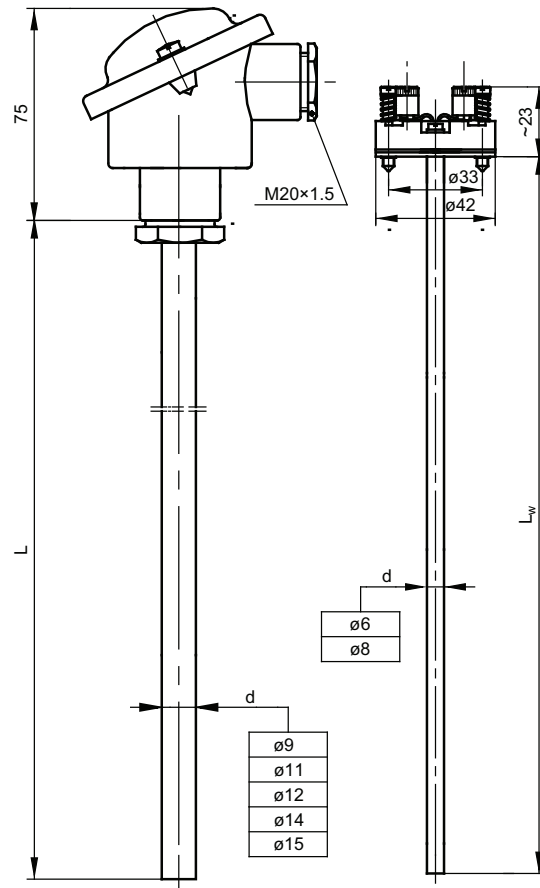
- BA, IP55, -40÷100°C

Options

- local display in connection head DANWwin – p. 160
- Pt500, Pt1000, Ni100, Ni1000, T, N
- connection heads – stainless steel BEG; aluminium NA, IP65; aluminium NA with snap lock – pp. 157÷158
- Pt100: class A -100÷450°C, class AA -50÷250°C; TC: class 1

Additional accessories

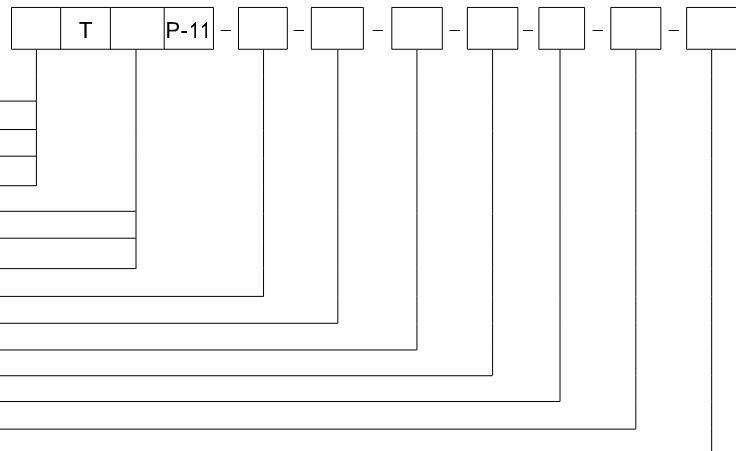
- temperature transmitters – pp. 162÷174
- additional protection tubes and thermowells – pp. 148÷153
- hot junction type – p. 13
- compensation cables – p. 145
- sensor mounting fittings – pp. 155÷156



Ordering code

Temperature sensor

- Single: **no designation**
- Double (for $d \geq 8$ mm): **2**
- With local display: **APW**
- With transmitter: **AP**
- RTD Pt: **OP**
- Thermocouple Fe-CuNi: **TJ**
- Thermocouple NiCr-NiAl: **TK**
- Hot junction type for TC: **SO, SOA, SP**
- Thermowell length L [mm]: **500** or other*
- Thermowell diameter d [mm]: **9, 11, 12, 14, 15**
- Thermowell material: **1,4541; 1,4841; 1,4762**
- RTD / thermocouple class: **A, B* / 1, 2**
- RTD Pt100 connection: **2-, 3-, 4- wire**
- Transmitter type – temperature range: **Tx (0÷400)°C***



Ordering example:

TOPP-11-500-12- 1,4541-A-3 single sensor with Pt100, class A, 3-wire connection, thermowell material 1,4541, diameter 12 mm and length L=500 mm

APTTKP-11-SO-710-15-1.4762-1- Tx-(0÷150)°C single sensor with thermocouple NiCr-NiAl /K/, class 1, grounded hot junction SO, thermowell material 1.4762, diameter 11 mm and length L=600 mm, with transmitter 4÷20 mA