

TEMPERATURE SENSOR

type 911, 912

SPECIFICATION

Temperature range	-40°C...+550°C (Pt100) -40°C...+400°C (T) -40°C...+600°C (J) -40°C...+900°C (K)
Measuring element - insert type TP-702	platinum resistor (Pt100) ⁽¹⁾ thermocouple Cu-CuNi (T) thermocouple Fe-CuNi (J) thermocouple NiCr-NiAl (K)
Class of processing element	2 (B) ⁽²⁾
Conductor material	wire Cu/Ni (for Pt100)
Assembly	2, 3 or 4 wires (for Pt100)
Measuring junction	insulated ⁽²⁾
Sheath material	steel 1.4541
Roughness of sheath surface	$R_a < 0,8 \mu\text{m}$ ⁽²⁾
Flange	DN 20 or DN 25 according to ISO 7005-1 ⁽⁵⁾
Maximum operating pressure	see the Sheath Operating Loads
Connection head type	B or NA ⁽³⁾
Head operating temperature	-40°C...+100°C
Additional accessories	temperature transmitter compensation cable

⁽¹⁾ Pt500, Pt1000, Ni100, Ni1000 on demand

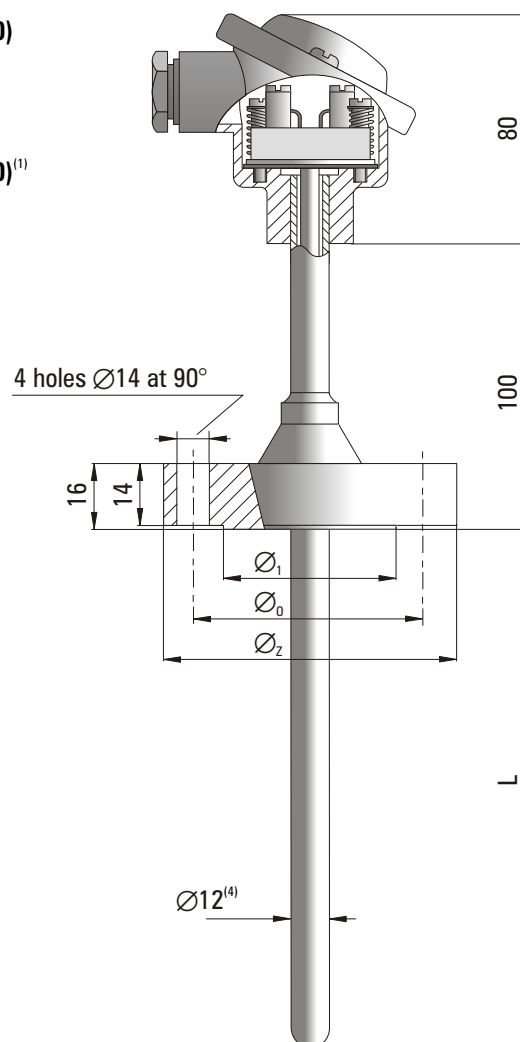
⁽²⁾ Other parameters according to customer requirements

⁽³⁾ Connection head with protection class IP65 or acid resistant on demand

⁽⁴⁾ Other outer sheath diameters on demand

⁽⁵⁾ Other flanges on demand

Sensor type	Flange	$\varnothing_1$ (mm)	$\varnothing_0$ (mm)	$\varnothing_2$ (mm)
TP-911	DN20	56	75	105
TP-912	DN25	65	85	115



ORDERING CODE

TP — — — — — — —

Sensor type **911, 912** _____
 Measuring element **Pt100, T, J or K** _____
 Single (1) or double (2) measuring element _____
 Sensor length L = **200, 300, 400, 600, 800 or 1000 mm**⁽²⁾ _____
 Option with the head-mount transmitter **T** _____

Example for order: TP-911K-1-400 sensor (with measuring insert TP-702K-1-530) with single thermocouple NiCr-NiAl (K) of outer diameter $\varnothing = 12$ mm and length L = 400 mm with welded flange DN20.
TP-911K-1-400-T; TCH-2140-K sensor with head-mount transmitter type TCH-2140-K.