

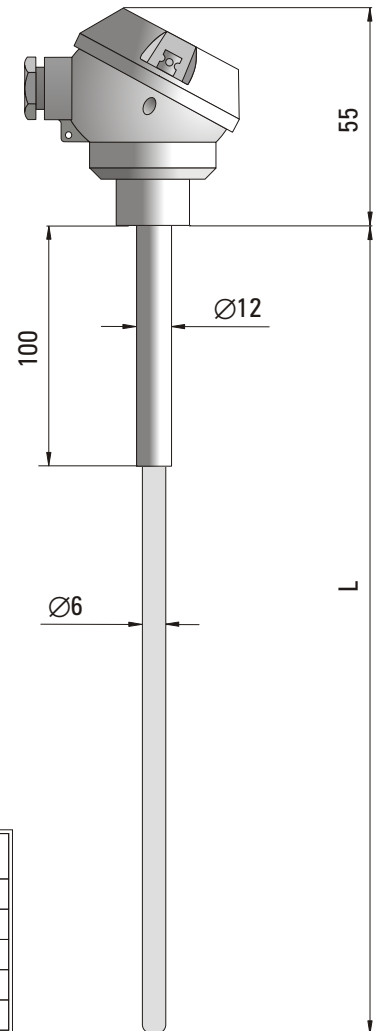
TEMPERATURE SENSOR

type 821, 822, 823, 824, 825

SPECIFICATION

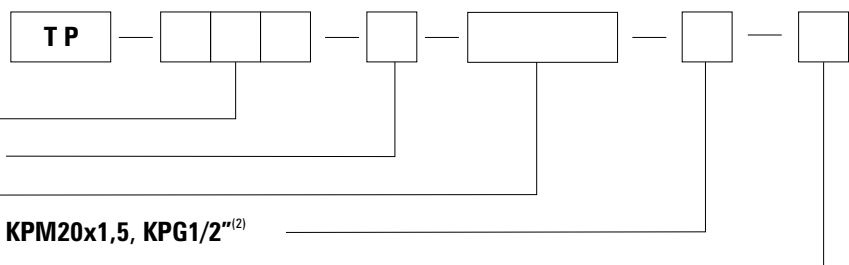
Measuring element	NiCr-NiAl PtRh90/10%-Pt PtRh70/30%-PtRh94/6%	(K) ⁽¹⁾ (S) (B)
Class of thermocouple	2 ⁽²⁾	
Spacer diameter	Ø12 mm	
Ceramic sheath diameter	Ø6 mm	
Sheath material	ceramic C610 (Al ₂ O ₃ 60%) ceramic C799 (Al ₂ O ₃ 99,7%)	
Connection head type	MA or B ⁽³⁾	
Head operating temperature	-40°C... +100°C	
Additional accessories	compression gland type KP temperature transmitter compensation cable	

⁽¹⁾ Thermocouple PtRh87/13%-Pt (R) or NiCrSi-NiSi (N) on demand
⁽²⁾ Other parameters according to customer requirements
⁽³⁾ Connection head with protection class IP65 or acid resistant on demand



Sensor type	Sheath material	Max. temperature (°C)	Type of thermocouple
TP-821	ceramic C610	1200	NiCr-NiAl
TP-822	ceramic C610	1300	PtRh90/10%-Pt 0,35 mm
TP-823	ceramic C610	1400	PtRh90/10%-Pt 0,50 mm
TP-824	ceramic C799	1500	PtRh90/10%-Pt 0,50 mm
TP-825	ceramic C799	1600	PtRh70/30%-PtRh94/6% 0,50 mm

ORDERING CODE



Sensor type **821, 822, 823, 824, 825**

Single (1) or double (2) measuring element

Sensor length L = **300, 500** or **700** mm⁽²⁾

Additional accessories: compression gland type **KPM20x1,5, KPG1/2**⁽²⁾

Option with the head-mount transmitter **T**

Example for order:

TP-821-1-500 sensor with single thermocouple NiCr-NiAl (K) in ceramic sheath C610 of outer diameter Ø = 6 mm and length L = 500 mm, connection head type MA.

TP-821-1-500-T; TCH-2170-K sensor with connection head type B, option with the head-mount transmitter type TCH-2170-K.