

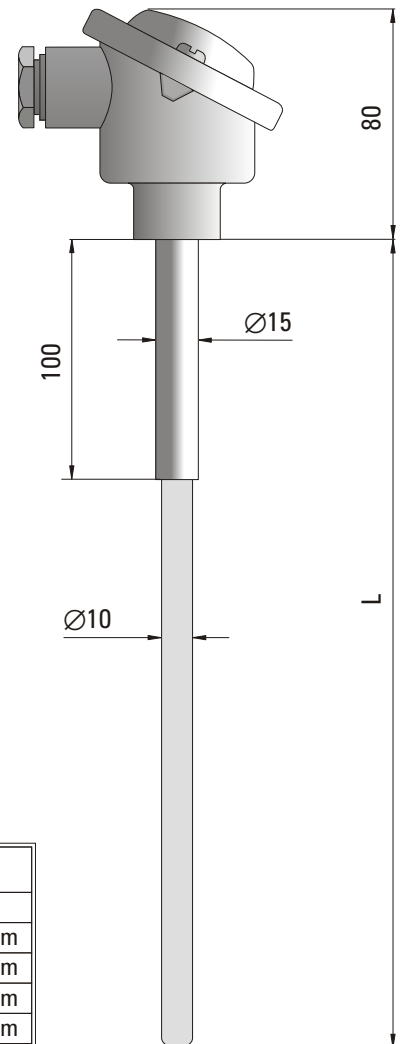
# TEMPERATURE SENSOR

## type 811, 812, 813, 814, 815

### SPECIFICATIONS

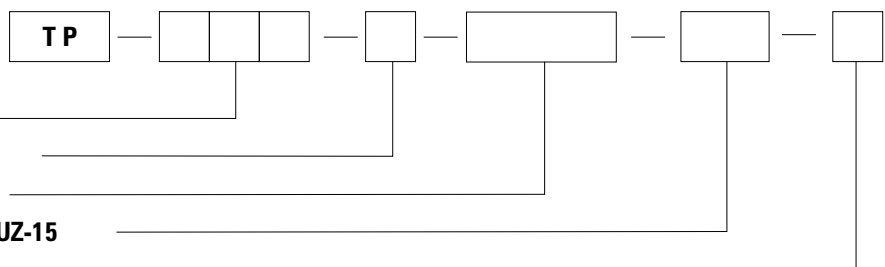
Measuring element	NiCr-NiAl PtRh90/10%-Pt PtRh70/30%-PtRh94/6%	(K) <sup>(1)</sup> (S) (B)
Class of thermocouple	2 <sup>(2)</sup>	
Spacer diameter	Ø15 mm	
Ceramic sheath diameter	Ø10 mm	
Sheath material	ceramic C610 (Al <sub>2</sub> O <sub>3</sub> 60%) ceramic C799 (Al <sub>2</sub> O <sub>3</sub> 99,7%)	
Connection head type	B or NA <sup>(3)</sup>	
Head operating temperature	-40°C... +100°C	
Additional accessories	clamping plate type <b>UZ</b> temperature transmitter compensation cable	

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



Sensor type	Sheath material	Max. temperature(°C)	Type of thermocouple
<b>TP-811</b>	ceramic C610	1200	NiCr-NiAl
<b>TP-812</b>	ceramic C610	1300	PtRh90/10%-Pt 0,35 mm
<b>TP-813</b>	ceramic C610	1400	PtRh90/10%-Pt 0,50 mm
<b>TP-814</b>	ceramic C799	1500	PtRh90/10%-Pt 0,50 mm
<b>TP-815</b>	ceramic C799	1600	PtRh70/30%-PtRh94/6% 0,50 mm

### ORDERING CODE



Sensor type **811, 812, 813, 814, 815**  
 Single (1) or double (2) measuring element  
 Sensor length L = **300, 500 or 700 mm**<sup>(2)</sup>  
 Additional accessories: clamping plate type **UZ-15**  
 Option with the head-mount transmitter **T**

**Example for order:** TP-811-1-500 sensor with thermocouple NiCr-NiAl (K) in ceramic sheath C610 of outer diameter Ø = 10 mm and length L = 500 mm.  
 TP-811-1-500-T; TCH-2170-K sensor with the head-mount transmitter type TCH-2170-K.