



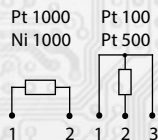
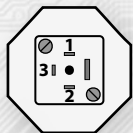
### Description

These resistance temperature sensors with a connector are designed for temperature measurements of gaseous or liquid substances. The temperature sensors with a connector consist of a metal case, in which the temperature sensing element is placed, and DIN 43650 connector, which is an integral part of the case. The standard embodiment of a sensor is intended for maximum temperature of 150°C. The sensor with extension is possible to used up to 250 °C.

### Basic technical parameters

Measuring ranges:	-30 ÷ 200 °C - KNP, KNPB, KNPA (Pt100, Pt500, Pt1000) -30 ÷ 150 °C - KP, KPB, KPA (Pt100, Pt500, Pt1000) -30 ÷ 200 °C - KNS, KNL, KNJ... (Ni1000, Ni10000, Ni891) -30 ÷ 150 °C - KS, KL, KJ... (Ni1000, Ni10000, Ni891) -30 ÷ 150 °C (NTC 20kΩ)
Connection	2 (on request 3) wiring
Accuracy	class B, IEC 751 (Pt100, Pt 500, Pt1000) class B, DIN 43760 (Ni1000, Ni10000, Ni891, Ni2226) ± 1 °C (NTC20kΩ)
Head	stainless steel (DIN 1.4301)
Stem length	L1 - 30, 60, 100, 160, 240 mm
Extension length	L2 - 50 mm
Insulation resistance	> 100 MΩ at 25 °C (500 V DC)
Protection type	IP 65 (EN 60529)
Relative humidity	< 95 %
Terminal board	GDSN 307
Connector operating temperature	-40 ÷ 125 °C
Thread	G1/2 (standard), on request G1/4, M20x1,5

### Wiring:



### Summary:

Sensor	KP	KPA	KPB	KS	KL	KJ	KSA	KH	KN
Sensing element	KNP	KNPA	KNPB	KNS	KNL	KNJ	KNSA	KNH	KNN
Recommended	Pt100	Pt1000	Pt500	Ni1000/6180	Ni1000/5000	Ni891	Ni10000/6180	NTC 20kΩ	Ni2226
Measurement current	1 mA	0,5 mA	0,5 mA	0,5 mA	0,5 mA	0,5 mA	0,2 mA	*	0,5 mA
Max. measurement current	5 mA	3 mA	3 mA	3 mA	3 mA	3 mA	0,5 mA	*	1 mA

\* KH and KNH sensors have a significantly non-linear dependence of resistance to temperature, we recommend a maximum power loss of 10 mW

Supplied with counterpart connector GDSN (GSSNA 300)

### Dimension:

