



CustomSens

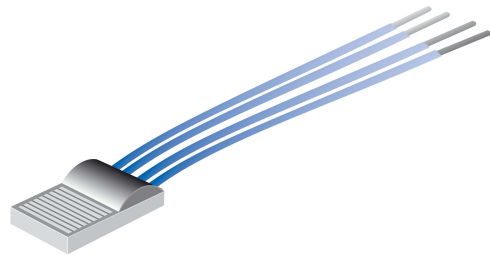
The Modular Sensor Concept

Product

The policy of our company is to put the customer with his wishes and demands in the centre of all our entrepreneurial activities. With this policy and the CustomSens product, we are offering a various range of sensors to the market. The highlight of these thin-film temperature sensors is the flexible structure of the connection wires. It is up to you how much work we should take off your hands in the assembly of the sensors. We offer short or long connections, bare or insulated and completed in 2-, 3- or even 4-wire technology. Not only the great choice of diversity offers many advantages, but due to the customised connection structure, the sensors are also characterised by superior product properties, giving you a double benefit.

Advantages

- Different wire materials (blank wires in Pt, Ni, Ni/Pt, Ag, Cu/Ag)
- Insulated wires (Cu/Ag with PTFE, ETFE, Peek, Cu-enameled)
- Nickel-flatwires gold coated
- Free wire length
- Stranded wires are bonded directly on the chip, no additive breakage
- Diverse chip sizes
- Nickel or Platinum thinfilm available
- Free nominal resistance
- Accuracy on customer specification



Technical Data

Nominal resistance:	100Ω, 500Ω, 1000Ω, 5000Ω und 10000Ω
Temperature range:	Pt: -200 °C to +600 °C (dependent of the wire material) Ni: -50 °C to +300 °C (dependent of the wire material)
Classes:	Pt: 1/3 DIN class B ; DIN class A ; DIN class B ; 2x DIN class B Ni: DIN, 1/2 DIN (IST cl. A) DIN 43760: ± 400mK (0 °C); ± 7mK/K (>0 °C); ± 28mK/K (<0 °C)
Tolerance classes: (ref. to Pt)	1/3 DIN class B: -50 °C to 150 °C DIN class A: -90 °C to 300 °C DIN class B: -200 °C to 600 °C
Temperature coefficient:	Pt: TCR = 3850ppm/K Ni: TCR from 4000 up to 6720ppm/K
Dependence of Resistivity:	All sensors are according to DIN EN 60751
Wires:	Cu/Ag Tefzel insulated, Cu/Ag Teflon insulated, Cu enameled, Pt/Ni blank, Platinum blank, Silver blank
Long-term stability:	Pt: max. Drift = 0.03% after 1000h at 600 °C Ni: max. Drift = 0.1% after 1000 h at 300 °C
Response time:	According to „Summery of Standard Products“
Measuring current:	0.5mA (100Ω) ; 0.4mA (500Ω) ; 0.3mA (1000Ω) ; 0.1mA (10'000Ω)
Self Heating:	According to „Summery of Standard Products“
Other Chipsizes, Nominal resistances, tolerances, length of wire or materials on request.	



INNOVATIVE SENSOR TECHNOLOGY

