

Float switch with temperature sensor PT100 SS...PT...

Platinum measuring resistors in accordance with DIN 43760 are used in all float switches with PT100 temperature sensor. PT100 temperature sensors can be configured in 2, 3 or 4-wire technology.

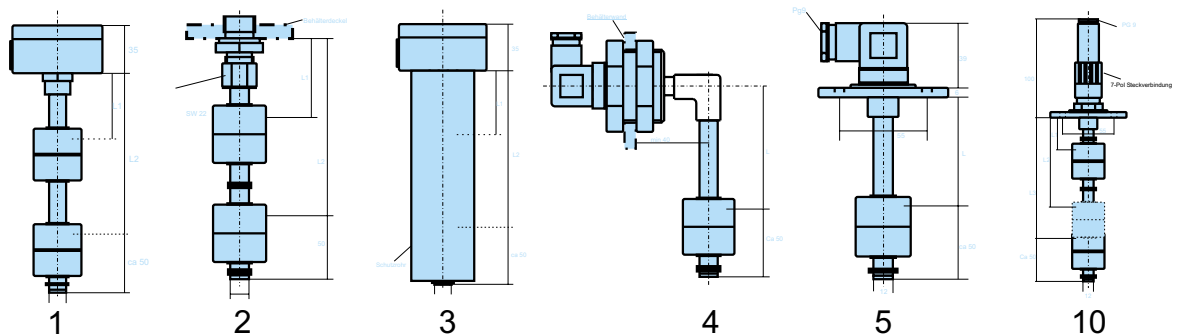
In conjunction with float switches, this combination presents a space-saving and low-cost variant.

For evaluation of measured temperatures, our temperature display and evaluation instruments DA-1 and DA-1T are available.

Technical data

Temperature sensor:	Platinum measuring resistor PT100 as per DIN 43760
Application temperature:	-40 °C to 130 °C - higher temperatures possible on request
Measurement accuracy:	PT100-2 wire $\pm 1^\circ\text{C}$ PT100-3 wire $\pm 0.5^\circ\text{C}$ PT100-4 wire $\pm 0.1^\circ\text{C}$
Nominal resistance:	100 Ohm
Temperature coefficient:	0.00385
Tolerance class:	DIN 43760 A
Measuring element inductivity:	0.03 μH
Recommended measuring currents for self-heating:	$< 0.1^\circ\text{C}$ 4-8 mA
Stability in accordance with >1000 h at 400°C :	$R_0 < 0.02 \%$

All float switch designs listed below can be combined with a PT100 sensor



For a detailed drawing of the design, see Chapter 1, Float switches.

Order key

e.g. SSM.1.B4.200.1S1.PT103

For the key, see Float switches

Temperature sensor here e.g. PT100-3 wire

