

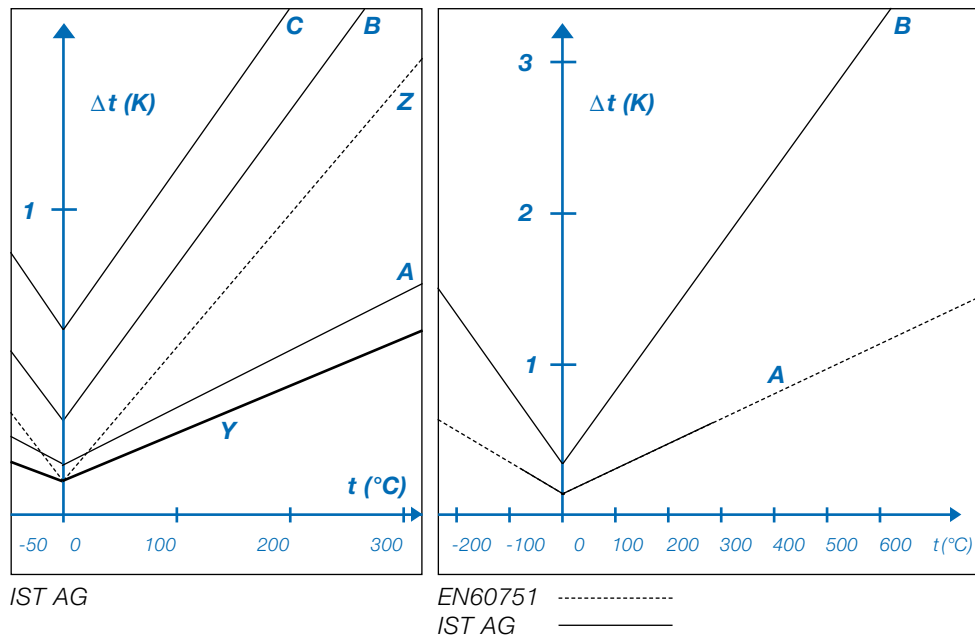
Tolerance Classes:

The temperature sensors are divided into classes according to their limit deviations:

Class	± limit deviations in °C (K)	IST AG designation
DIN class A	0.15 + 0.002 · t	A
DIN class B	0.3 + 0.005 · t	B
2 x class B	0.6 + 0.005 · t	C
1/3 class B +	0.1 + 0.0017 · t	Y
1/3 class B -	0.1 + 0.005 · t	Z

|t| is the numerical value of the temperature in °C without taking into account either negative or positive signs. Special selection of sensors upon request (e.g. pairings, grouping, special tolerances)

Tolerance fields:



Response Times and Self-Heating:

Sensor size	Response Time						Self-Heating	
	water 0.4m/s			air 1m/s			water	air
	$T_{0.5}$	$T_{0.63}$	$T_{0.9}$	$T_{0.5}$	$T_{0.63}$	$T_{0.9}$	mW/°C	mW/°C
2.3 x 2.0 x 0.25	0.09	0.12	0.33	2.7	3.6	7.5	40	4
2.3 x 2.0 x 0.63	0.15	0.2	0.55	4.5	6	12	40	4
3.0 x 2.5 x 0.63	0.25	0.3	0.7	5.5	7.5	16	90	8
5.0 x 1.6 x 0.63	0.25	0.3	0.7	5.5	7.5	16	80	7
5.0 x 2.0 x 0.63	0.25	0.3	0.75	6	8.5	18	80	7
5.0 x 2.5 x 0.63	0.33	0.4	0.85	6.5	9	19	90	8
10. x 2.0 x 0.63	0.33	0.4	0.85	7.5	10.5	20	140	10
5.0 x 3.8 x 0.63	0.35	0.4	0.9	7.5	10	20	140	10
5.0 x 5.0 x 0.63	0.4	0.5	1.1	8	11	21	150	11
1 x 13 x Ø 2.8	2.5	4.5	8	10	15	28	60	5.5
2 x 13 x Ø 2.8	2	2.5	5.5	10	12	22	45	4
1 x 13 x Ø 4.5	8	10	22	12	22	40	85	8
2 x 13 x Ø 4.5	5	6	14	16	18	37	60	6.5

Tolerances of dimensions:

Sensor width	± 0.2 mm	Wire length	± 1.0 mm
Sensor length	± 0.2 mm	Tube length	± 0.2 mm
Sensor thickness	± 0.1 mm	Tube diameter	± 0.1 mm

Standard Versions

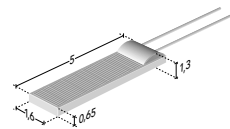
Temperature sensors with Wire Terminations:

Product series Pxxx.xxx.4W.x.010 -200°C .. 400°C (silver-wire 0.25 x 10 mm)
Product series Pxxx.xxx.6W.x.010 -200°C .. 600°C (platinum-clad-Nickel wire 0.2 x 10 mm)

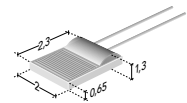
Dimensions

Nominal resistance at 0°C (Ohm)

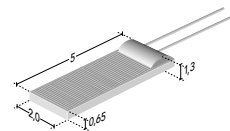
Part number



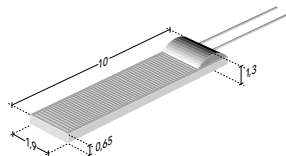
100	P0k1.516.xW.x.010
500	P0k5.516.xW.x.010
1 000	P1k0.516.xW.x.010
2 000	P2k0.516.xW.x.010



100	P0k1.232.xW.x.010
500	P0k5.232.xW.x.010
1 000	P1k0.232.xW.x.010
2 000	P2k0.232.xW.x.010



100	P0k1.520.xW.x.010
500	P0k5.520.xW.x.010
1 000	P1k0.520.xW.x.010
2 000	P2k0.520.xW.x.010



100	P0k1.102.xW.x.010
500	P0k5.102.xW.x.010
1 000	P1k0.102.xW.x.010
2 000	P2k0.102.xW.x.010

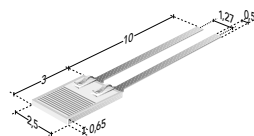
Temperature sensors with SIL lead frames:

Product series Pxxx.xxx.2S.x -50 .. 200°C

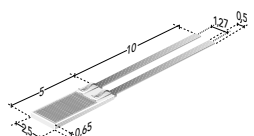
Dimensions

Nominal resistance at 0°C (Ohm)

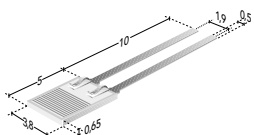
Part number



100	P0k1.325.2S.x
500	P0k5.325.2S.x
1 000	P1k0.325.2S.x



100	P0k1.525.2S.x
500	P0k5.525.2S.x
1 000	P1k0.525.2S.x
2 000	P2k0.525.2S.x
5 000	P5k0.525.2S.x
10 000	P10k.525.2S.x



100	P0k1.538.2S.x
500	P0k5.538.2S.x
1 000	P1k0.538.2S.x