

Tolerance values of Pt100 sensors *

Allowable deviation Δt for F0,15 / W0,15 (old class A) acc. to DIN EN 60751 (worth in K)

°C	0	-10	-20	-30	-40	-50	-60	-70	-80	-90
-100	0.35	0.37	0.39	0.41	0.43	0.45	0.47	0.49	0.51	0.53
0	0.15	0.17	0.19	0.21	0.23	0.25	0.27	0.29	0.31	0.33
°C	0	10	20	30	40	50	60	70	80	90
0	0.15	0.17	0.19	0.21	0.23	0.25	0.27	0.29	0.31	0.33
100	0.35	0.37	0.39	0.41	0.43	0.45	0.47	0.49	0.51	0.53
200	0.55	0.57	0.59	0.61	0.63	0.65	0.67	0.69	0.71	0.73
300	0.75	0.77	0.79	0.81	0.83	0.85	0.87	0.89	0.91	0.93
400	0.95	0.97	0.99	1.01	1.03	1.05	1.07	1.09	1.11	1.13
500	1.15	1.17	1.19	1.21	1.23	1.25	1.27	1.29	1.31	1.33
600	1.35	1.37	1.39	1.41	1.43	1.45	1.47	1.49	1.51	1.53

Allowable deviation Δt for F0,3 / W0,3 (old class B) acc. to DIN EN 60751 (worth in K)

°C	0	-10	-20	-30	-40	-50	-60	-70	-80	-90
-100	0.80	0.85	0.90	0.95	1.00	1.05	1.10	1.15	1.20	1.25
0	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75
°C	0	10	20	30	40	50	60	70	80	90
0	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75
100	0.80	0.85	0.90	0.95	1.00	1.05	1.10	1.15	1.20	1.25
200	1.30	1.35	1.40	1.45	1.50	1.55	1.60	1.65	1.70	1.75
300	1.80	1.85	1.90	1.95	2.00	2.05	2.10	2.15	2.20	2.25
400	2.30	2.35	2.40	2.45	2.50	2.55	2.60	2.65	2.70	2.75
500	2.80	2.85	2.90	2.95	3.00	3.05	3.10	3.15	3.20	3.25
600	3.30	3.35	3.40	3.45	3.50	3.55	3.60	3.65	3.70	3.75

* normally the operational temperature range of resistance thermometers does not meet the total range given in this table.

Most essential for the lower and the upper temperature limit of a specific sensor type are the materials used and the particular applicational conditions.

