

Tables of
thermocouple and
RTD resistance and
E.M.F. values

- 1 [ohm] resistance values for Pt100[ohm] resistance thermometers at 0°C, pursuant to EN 60751
2 EMF values in mV for thermocouples according to EN60584-1 (IEC 584-1)

Temperature °C	1 Pt100 EN 60751	2 Cu-Cost Type T EN 60584-1	NiCr-Cost Type E EN 60584-1	Fe-Cost Type J EN 60584-1	NiCr-Ni Type K EN 60584-1	NiCrSi-NiSi Type N EN 60584-1	Pt10Rh-Pt Type S EN 60584-1	Pt13Rh-Pt Type R EN 60584-1	Pt30Rh-Pt6Rh Type B EN 60584-1
STI 90 IPTS68									
-200	18.52	-5.603	-8.825	-7.890					
-150	39.72	-4.648	-7.279	-6.450	-4.913	-3.336			
-100	60.26	-3.379	-5.237	-4.6333	-3.554	-2.407			
-50	80.31	-1.819	-2.787	-2.431	-1.889	-1.269	-0.236	-0.226	
0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	119.40	2.036	3.048	2.585	2.023	1.340	0.299	0.296	0.002
100	138.51	4.279	6.319	5.269	4.096	2.774	0.646	0.647	0.033
150	157.33	6.704	9.789	8.010	6.138	4.302	1.029	1.041	0.092
200	175.86	9.288	13.421	10.779	8.138	5.913	1.441	1.469	0.178
250	194.10	12.013	17.181	13.555	10.153	7.597	1.874	1.923	0.291
300	212.05	14.862	21.036	16.327	12.209	9.341	2.323	2.401	0.431
350	229.72	17.819	24.964	19.090	14.293	11.136	2.786	2.896	0.596
400	247.09	20.810	28.946	21.848	16.397	12.974	3.259	3.408	0.787
450	264.18		32.965	24.610	18.516	14.846	3.742	3.933	1.002
500	280.98		37.005	27.393	20.644	16.478	4.233	4.471	1.242
550	297.49		41.053	30.216	22.776	18.672	4.732	5.021	1.505
600	313.71		45.093	33.102	24.905	20.613	5.239	5.583	1.792
650	329.64		49.116	36.071	27.025	22.566	5.753	6.157	2.101
700	345.28		53.122	39.132	29.129	24.527	6.275	6.743	2.431
750	360.64		57.080	42.281	31.213	26.491	6.806	7.340	2.782
800	375.70		61.017	45.494	33.275	28.455	7.345	7.950	3.154
850	390.48		64.922	48.715	35.313	30.416	7.893	8.571	3.546
900			68.787	51.877	37.326	32.372	8.449	9.205	3.957
950			72.603	54.956	39.314	34.919	8.014	9.850	4.387
1000			76.298	57.953	41.276	36.256	9.587	10.506	4.834
1050				60.890	43.211	38.179	10.168	11.173	5.299
1100				63.792	45.119	40.087	10.757	11.850	5.780
1150				66.679	46.995	41.976	11.352	12.535	6.276
1200				69.496	48.838	43.846	11.951	13.228	6.786
1250					50.644	45.694	12.554	13.926	7.311
1300					52.410	47.477	13.159	14.629	7.848
1350					54.138		13.766	15.334	8.397
1400							14.373	16.040	8.956
1450							14.978	16.746	9.524
1500							15.582	17.451	10.099
1550							16.182	18.152	10.679
1600							16.777	18.849	11.263
1650							17.366	19.540	11.848
1700							17.947	20.222	12.433
1750							18.503	20.877	13.014
1800									13.591

 Suggested temperature range