



SENSOR RESISTANCE CHART – RTD SENSORS

FAHRENHEIT				
Element Code Base Resistance	Type 78 2000Ω Nickel Iron @ 70°F	Type 81 100Ω Platinum @ 32°F	Type 85 1000Ω Platinum @ 32°F	Type 91 1000Ω Platinum @ 32°F
TCR	0.00527	0.00385	0.00385	0.00375
°F	Ohms	Ohms	Ohms	Ohms
-40		84.259	842.590	846.576
-30	1543.240	86.457	864.570	868.013
-20	1585.015	88.651	886.510	889.407
-10	1627.739	90.842	908.420	910.759
0	1671.379	93.029	930.290	932.069
10	1715.904	95.211	952.110	953.340
20	1761.280	97.390	973.900	974.572
30	1807.475	99.565	995.650	995.766
40	1854.460	101.736	1017.360	1016.922
50	1902.217	103.904	1039.040	1038.042
60	1950.736	106.067	1060.670	1059.124
70	2000.005	108.227	1082.270	1080.169
80	2050.015	110.383	1103.830	1101.177
90	2100.754	112.536	1125.360	1122.148
100	2152.212	114.684	1146.840	1143.081
110	2204.378	116.829	1168.290	1163.978
120	2257.242	118.971	1189.710	1184.837
130	2310.792	121.109	1211.090	1205.659
140	2365.019	123.243	1232.430	1226.445
150	2419.911	125.373	1253.730	1247.192
160	2475.458	127.500	1275.000	1267.903
170	2531.649	129.623	1296.230	1288.577
180	2588.474	131.742	1317.420	1309.213
190	2645.921	133.858	1338.580	1329.812
200	2703.980	135.970	1359.700	1350.374
210	2762.641	138.079	1380.790	1370.899
220	2821.892	140.184	1401.840	1391.387
230	2881.724	142.285	1422.850	1411.838
240	2942.125	144.383	1443.830	1432.251
250	146.477	1464.770	1452.628	
260	148.567	1485.670	1472.967	
270	150.654	1506.540	1493.269	
280	152.738	1527.380	1513.534	
290	154.817	1548.170	1533.762	
300	156.894	1568.940	1553.952	

CENTIGRADE				
Element Code Base Resistance	Type 78 2000Ω Nickel Iron @ 21°C	Type 81 100Ω Platinum @ 0°C	Type 85 1000Ω Platinum @ 0°C	Type 91 1000Ω Platinum @ 0°C
TCR	0.00527	0.00385	0.00385	0.00375
°C	Ohms	Ohms	Ohms	Ohms
-40		84.259	842.590	846.576
-30		88.213	882.130	885.132
-20	1653.810	92.160	921.600	923.550
-10	1735.310	96.083	960.830	961.837
0	1816.810	100.000	1000.000	1000.000
10	1903.450	103.904	1039.040	1038.042
20	1990.090	107.795	1077.950	1075.963
30	2081.540	111.675	1116.750	1113.764
40	2172.990	115.543	1155.450	1151.445
50	2269.000	119.399	1193.990	1189.005
60	2365.010	123.243	1232.430	1226.445
70	2465.335	127.075	1270.750	1263.764
80	2565.660	130.895	1308.950	1300.963
90	2670.050	134.703	1347.030	1338.042
100	2774.440	138.500	1385.000	1375.000
110	2882.640	142.285	1422.850	1411.838
120	2990.840	146.060	1460.600	1448.560
130	3102.605	149.820	1498.200	1485.153
140	3214.370	153.580	1535.800	1521.630
150	3329.455	157.308	1573.080	1557.986
160	3444.540	161.040	1610.400	1594.222
170	3562.690	164.750	1647.500	1630.338
180	3680.840	168.460	1684.600	1666.333
190	3801.805	172.146	1721.460	1702.208
200	3922.770	175.840	1758.400	1737.963
210		179.496	1794.960	1773.597
220		183.170	1831.700	1809.111
230		186.800	1868.000	1844.504
240		190.450	1904.500	1879.780
250		194.058	1940.580	1914.930
260		197.690	1976.900	1949.962