

Appendix B

S-type thermocouple reference table

t, °C	0	+1	+2	+3	+4	+5	+6	+7	+8	+9
-50	-0.236	-0.232	-0.228	-0.224	-0.220	-0.215	-0.211	-0.207	-0.203	-0.199
-40	-0.194	-0.190	-0.186	-0.181	-0.177	-0.173	-0.168	-0.164	-0.159	-0.155
-30	-0.150	-0.145	-0.141	-0.136	-0.132	-0.127	-0.122	-0.117	-0.112	-0.108
-20	-0.103	-0.098	-0.093	-0.088	-0.083	-0.078	-0.073	-0.068	-0.063	-0.058
-10	-0.053	-0.048	-0.042	-0.037	-0.032	-0.027	-0.021	-0.016	-0.011	-0.005
0	0.000	0.005	0.011	0.016	0.022	0.027	0.033	0.038	0.044	0.050
10	0.055	0.061	0.067	0.072	0.078	0.084	0.090	0.095	0.101	0.107
20	0.113	0.119	0.125	0.131	0.137	0.142	0.148	0.154	0.161	0.167
30	0.173	0.179	0.185	0.191	0.197	0.203	0.210	0.216	0.222	0.228
40	0.235	0.241	0.247	0.254	0.260	0.266	0.273	0.279	0.286	0.292
50	0.299	0.305	0.312	0.318	0.325	0.331	0.338	0.345	0.351	0.358
60	0.365	0.371	0.378	0.385	0.391	0.398	0.405	0.412	0.419	0.425
70	0.432	0.439	0.446	0.453	0.460	0.467	0.474	0.481	0.488	0.495
80	0.502	0.509	0.516	0.523	0.530	0.537	0.544	0.551	0.558	0.566
90	0.573	0.580	0.587	0.594	0.602	0.609	0.616	0.623	0.631	0.638
100	0.645	0.653	0.660	0.667	0.675	0.682	0.690	0.697	0.704	0.712
110	0.719	0.727	0.734	0.742	0.749	0.757	0.764	0.772	0.780	0.787
120	0.795	0.802	0.810	0.818	0.825	0.833	0.841	0.848	0.856	0.864
130	0.872	0.879	0.887	0.895	0.903	0.910	0.918	0.926	0.934	0.942
140	0.950	0.957	0.965	0.973	0.981	0.989	0.997	1.005	1.013	1.021
150	1.029	1.037	1.045	1.053	1.061	1.069	1.077	1.085	1.093	1.101
160	1.109	1.117	1.125	1.133	1.141	1.149	1.158	1.166	1.174	1.182
170	1.190	1.198	1.207	1.215	1.223	1.231	1.240	1.248	1.256	1.264
180	1.273	1.281	1.289	1.297	1.306	1.314	1.322	1.331	1.339	1.347
190	1.356	1.364	1.373	1.381	1.389	1.398	1.406	1.415	1.423	1.432
200	1.440	1.448	1.457	1.465	1.474	1.482	1.491	1.499	1.508	1.516
210	1.525	1.534	1.542	1.551	1.559	1.568	1.576	1.585	1.594	1.602
220	1.611	1.620	1.628	1.637	1.645	1.654	1.663	1.671	1.680	1.689
230	1.698	1.706	1.715	1.724	1.732	1.741	1.750	1.759	1.767	1.776
240	1.785	1.794	1.802	1.811	1.820	1.829	1.838	1.846	1.855	1.864
250	1.873	1.882	1.891	1.899	1.908	1.917	1.926	1.935	1.944	1.953
260	1.962	1.971	1.979	1.988	1.997	2.006	2.015	2.024	2.033	2.042
270	2.051	2.060	2.069	2.078	2.087	2.096	2.105	2.114	2.123	2.132
280	2.141	2.150	2.159	2.168	2.177	2.186	2.195	2.204	2.213	2.222
290	2.232	2.241	2.250	2.259	2.268	2.277	2.286	2.295	2.304	2.314
300	2.323	2.332	2.341	2.350	2.359	2.368	2.378	2.387	2.396	2.405
310	2.414	2.424	2.433	2.442	2.451	2.460	2.470	2.479	2.488	2.497
320	2.506	2.516	2.525	2.534	2.543	2.553	2.562	2.571	2.581	2.590
330	2.599	2.608	2.618	2.627	2.636	2.646	2.655	2.664	2.674	2.683
340	2.692	2.702	2.711	2.720	2.730	2.739	2.748	2.758	2.767	2.776
350	2.786	2.795	2.805	2.814	2.823	2.833	2.842	2.852	2.861	2.870
360	2.880	2.889	2.899	2.908	2.917	2.927	2.936	2.946	2.955	2.965
370	2.974	2.984	2.993	3.003	3.012	3.022	3.031	3.041	3.050	3.059
380	3.069	3.078	3.088	3.097	3.107	3.117	3.126	3.136	3.145	3.155
390	3.164	3.174	3.183	3.193	3.202	3.212	3.221	3.231	3.241	3.250
400	3.260	3.269	3.279	3.288	3.298	3.308	3.317	3.327	3.336	3.346

t, °C	0	+1	+2	+3	+4	+5	+6	+7	+8	+9
410	3.355	3.365	3.374	3.384	3.394	3.403	3.413	3.423	3.432	3.442
420	3.451	3.461	3.471	3.480	3.490	3.500	3.509	3.519	3.529	3.538
430	3.548	3.558	3.567	3.577	3.587	3.596	3.606	3.616	3.626	3.635
440	3.645	3.655	3.664	3.674	3.684	3.694	3.703	3.713	3.723	3.732
450	3.742	3.752	3.762	3.771	3.781	3.791	3.801	3.810	3.820	3.830
460	3.840	3.850	3.859	3.869	3.879	3.889	3.898	3.908	3.918	3.928
470	3.938	3.947	3.957	3.967	3.977	3.987	3.997	4.006	4.016	4.026
480	4.036	4.046	4.056	4.065	4.075	4.085	4.095	4.105	4.115	4.125
490	4.134	4.144	4.154	4.164	4.174	4.184	4.194	4.204	4.213	4.223
500	4.233	4.243	4.253	4.263	4.273	4.283	4.293	4.303	4.313	4.323
510	4.332	4.342	4.352	4.362	4.372	4.382	4.392	4.402	4.412	4.422
520	4.432	4.442	4.452	4.462	4.472	4.482	4.492	4.502	4.512	4.522
530	4.532	4.542	4.552	4.562	4.572	4.582	4.592	4.602	4.612	4.622
540	4.632	4.642	4.652	4.662	4.672	4.682	4.692	4.702	4.712	4.722
550	4.732	4.742	4.752	4.762	4.772	4.782	4.793	4.803	4.813	4.823
560	4.833	4.843	4.853	4.863	4.873	4.883	4.893	4.904	4.914	4.924
570	4.934	4.944	4.954	4.964	4.974	4.984	4.995	5.005	5.015	5.025
580	5.035	5.045	5.055	5.066	5.076	5.086	5.096	5.106	5.116	5.127
590	5.137	5.147	5.157	5.167	5.178	5.188	5.198	5.208	5.218	5.228
600	5.239	5.249	5.259	5.269	5.280	5.290	5.300	5.310	5.320	5.331