

# **CONVERSION TABLE FOR S, R and K-type THERMOCOUPLE**

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## How this table works

### R-type Thermocouple

- Ambient air temperature is 25°C.
- The table tells us that 25°C correspond to 0.14mV for a R-type Thermocouple (see page 10)
- Measured value (with a standard voltmeter) at the 2 thermocouple wires is 8.5mV

You now have to add up the MV obtained by the voltmeter to those of the ambient temperature.

$$8.5 \text{ mV} + 0.14 \text{ mV} = \mathbf{8.64 \text{ mV}}$$
 (page 11)

**Temperature inside the furnace is 856°C(=8.64mV)** (page11)

### Thermocouple du type R:

- La température ambiante est de 25°C.
- La table du thermocouple de type R indique que 25°C correspond à 0.14 mV (en rouge à la page 10)
- La valeur mesurée (avec un voltmètre) à la sortie des 2 fils du thermocouple inséré dans le four indique une valeur de 8.5 mV.

Il faut additionner les 8.5mV obtenu par le voltmètre à ceux de la température ambiante, 0.14mV soit :

$$8.5 \text{ mV} + 0.14 \text{ mV} = \mathbf{8.64 \text{ mV}}$$
 (page 11)

**La température à l'intérieure du four est donc de 856°C(=8.64mV)** (page11)

## **S-TYPE THERMOCOUPLE**

## **THERMOCOUPLE DE TYPE S**

S-type : 0°C – 480°C

°C	0	1	2	3	4	5	6	7	8	9	10
	Voltage [mV]										
<b>0</b>	0	0.005	0.011	0.016	0.022	0.027	0.033	0.038	0.044	0.05	0.055
<b>10</b>	0.055	0.061	0.067	0.072	0.078	0.084	0.09	0.095	0.101	0.107	0.113
<b>20</b>	0.113	0.119	0.125	0.131	0.137	0.143	0.149	0.155	0.161	0.167	0.173
<b>30</b>	0.173	0.179	0.185	0.191	0.197	0.204	0.21	0.216	0.222	0.229	0.235
<b>40</b>	0.235	0.241	0.248	0.254	0.26	0.267	0.273	0.28	0.286	0.292	0.299
<b>50</b>	0.299	0.305	0.312	0.319	0.325	0.332	0.338	0.345	0.352	0.358	0.365
<b>60</b>	0.365	0.372	0.378	0.385	0.392	0.399	0.405	0.412	0.419	0.426	0.433
<b>70</b>	0.433	0.44	0.446	0.453	0.46	0.467	0.474	0.481	0.488	0.495	0.502
<b>80</b>	0.502	0.509	0.516	0.523	0.53	0.538	0.545	0.552	0.559	0.566	0.573
<b>90</b>	0.573	0.58	0.588	0.595	0.602	0.609	0.617	0.624	0.631	0.639	0.646
<b>100</b>	0.646	0.653	0.661	0.668	0.675	0.683	0.69	0.698	0.705	0.713	0.72
<b>110</b>	0.72	0.727	0.735	0.743	0.75	0.758	0.765	0.773	0.78	0.788	0.795
<b>120</b>	0.795	0.803	0.811	0.818	0.826	0.834	0.841	0.849	0.857	0.865	0.872
<b>130</b>	0.872	0.88	0.888	0.896	0.903	0.911	0.919	0.927	0.935	0.942	0.95
<b>140</b>	0.95	0.958	0.966	0.974	0.982	0.99	0.998	1.006	1.013	1.021	1.029
<b>150</b>	1.029	1.037	1.045	1.053	1.061	1.069	1.077	1.085	1.094	1.102	1.11
<b>160</b>	1.11	1.118	1.126	1.134	1.142	1.15	1.158	1.167	1.175	1.183	1.191
<b>170</b>	1.191	1.199	1.207	1.216	1.224	1.232	1.24	1.249	1.257	1.265	1.273
<b>180</b>	1.273	1.282	1.29	1.298	1.307	1.315	1.323	1.332	1.34	1.348	1.357
<b>190</b>	1.357	1.365	1.373	1.382	1.39	1.399	1.407	1.415	1.424	1.432	1.441
<b>200</b>	1.441	1.449	1.458	1.466	1.475	1.483	1.492	1.5	1.509	1.517	1.526
<b>210</b>	1.526	1.534	1.543	1.551	1.56	1.569	1.577	1.586	1.594	1.603	1.612
<b>220</b>	1.612	1.62	1.629	1.638	1.646	1.655	1.663	1.672	1.681	1.69	1.698
<b>230</b>	1.698	1.707	1.716	1.724	1.733	1.742	1.751	1.759	1.768	1.777	1.786
<b>240</b>	1.786	1.794	1.803	1.812	1.821	1.829	1.838	1.847	1.856	1.865	1.874
<b>250</b>	1.874	1.882	1.891	1.9	1.909	1.918	1.927	1.936	1.944	1.953	1.962
<b>260</b>	1.962	1.971	1.98	1.989	1.998	2.007	2.016	2.025	2.034	2.043	2.052
<b>270</b>	2.052	2.061	2.07	2.078	2.087	2.096	2.105	2.114	2.123	2.132	2.141
<b>280</b>	2.141	2.151	2.16	2.169	2.178	2.187	2.196	2.205	2.214	2.223	2.232
<b>290</b>	2.232	2.241	2.25	2.259	2.268	2.277	2.287	2.296	2.305	2.314	2.323
<b>300</b>	2.323	2.332	2.341	2.35	2.36	2.369	2.378	2.387	2.396	2.405	2.415
<b>310</b>	2.415	2.424	2.433	2.442	2.451	2.461	2.47	2.479	2.488	2.497	2.507
<b>320</b>	2.507	2.516	2.525	2.534	2.544	2.553	2.562	2.571	2.581	2.59	2.599
<b>330</b>	2.599	2.609	2.618	2.627	2.636	2.646	2.655	2.664	2.674	2.683	2.692
<b>340</b>	2.692	2.702	2.711	2.72	2.73	2.739	2.748	2.758	2.767	2.776	2.786
<b>350</b>	2.786	2.795	2.805	2.814	2.823	2.833	2.842	2.851	2.861	2.87	2.88
<b>360</b>	2.88	2.889	2.899	2.908	2.917	2.927	2.936	2.946	2.955	2.965	2.974
<b>370</b>	2.974	2.983	2.993	3.002	3.012	3.021	3.031	3.04	3.05	3.059	3.069
<b>380</b>	3.069	3.078	3.088	3.097	3.107	3.116	3.126	3.135	3.145	3.154	3.164
<b>390</b>	3.164	3.173	3.183	3.192	3.202	3.212	3.221	3.231	3.24	3.25	3.259
<b>400</b>	3.259	3.269	3.279	3.288	3.298	3.307	3.317	3.326	3.336	3.346	3.355
<b>410</b>	3.355	3.365	3.374	3.384	3.394	3.403	3.413	3.423	3.432	3.442	3.451
<b>420</b>	3.451	3.461	3.471	3.48	3.49	3.5	3.509	3.519	3.529	3.538	3.548
<b>430</b>	3.548	3.558	3.567	3.577	3.587	3.596	3.606	3.616	3.626	3.635	3.645
<b>440</b>	3.645	3.655	3.664	3.674	3.684	3.694	3.703	3.713	3.723	3.732	3.742
<b>450</b>	3.742	3.752	3.762	3.771	3.781	3.791	3.801	3.81	3.82	3.83	3.84
<b>460</b>	3.84	3.85	3.859	3.869	3.879	3.889	3.898	3.908	3.918	3.928	3.938
<b>470</b>	3.938	3.947	3.957	3.967	3.977	3.987	3.997	4.006	4.016	4.026	4.036
<b>480</b>	4.036	4.046	4.056	4.065	4.075	4.085	4.095	4.105	4.115	4.125	4.134

S-type : 490°C - 970°C

°C	0	1	2	3	4	5	6	7	8	9	10
	Voltage [mV]										
<b>490</b>	4.134	4.144	4.154	4.164	4.174	4.184	4.194	4.204	4.213	4.223	4.233
<b>500</b>	4.233	4.243	4.253	4.263	4.273	4.283	4.293	4.303	4.313	4.323	4.332
<b>510</b>	4.332	4.342	4.352	4.362	4.372	4.382	4.392	4.402	4.412	4.422	4.432
<b>520</b>	4.432	4.442	4.452	4.462	4.472	4.482	4.492	4.502	4.512	4.522	4.532
<b>530</b>	4.532	4.542	4.552	4.562	4.572	4.582	4.592	4.602	4.612	4.622	4.632
<b>540</b>	4.632	4.642	4.652	4.662	4.672	4.682	4.692	4.702	4.712	4.722	4.732
<b>550</b>	4.732	4.742	4.752	4.762	4.772	4.782	4.793	4.803	4.813	4.823	4.833
<b>560</b>	4.833	4.843	4.853	4.863	4.873	4.883	4.893	4.904	4.914	4.924	4.934
<b>570</b>	4.934	4.944	4.954	4.964	4.974	4.984	4.995	5.005	5.015	5.025	5.035
<b>580</b>	5.035	5.045	5.055	5.066	5.076	5.086	5.096	5.106	5.116	5.127	5.137
<b>590</b>	5.137	5.147	5.157	5.167	5.178	5.188	5.198	5.208	5.218	5.228	5.239
<b>600</b>	5.239	5.249	5.259	5.269	5.28	5.29	5.3	5.31	5.32	5.331	5.341
<b>610</b>	5.341	5.351	5.361	5.372	5.382	5.392	5.402	5.413	5.423	5.433	5.443
<b>620</b>	5.443	5.454	5.464	5.474	5.485	5.495	5.505	5.515	5.526	5.536	5.546
<b>630</b>	5.546	5.557	5.567	5.577	5.588	5.598	5.608	5.618	5.629	5.639	5.649
<b>640</b>	5.649	5.66	5.67	5.68	5.691	5.701	5.712	5.722	5.732	5.743	5.753
<b>650</b>	5.753	5.763	5.774	5.784	5.794	5.805	5.815	5.826	5.836	5.846	5.857
<b>660</b>	5.857	5.867	5.878	5.888	5.898	5.909	5.919	5.93	5.94	5.95	5.961
<b>670</b>	5.961	5.971	5.982	5.992	6.003	6.013	6.024	6.034	6.044	6.055	6.065
<b>680</b>	6.065	6.076	6.086	6.097	6.107	6.118	6.128	6.139	6.149	6.16	6.17
<b>690</b>	6.17	6.181	6.191	6.202	6.212	6.223	6.233	6.244	6.254	6.265	6.275
<b>700</b>	6.275	6.286	6.296	6.307	6.317	6.328	6.338	6.349	6.36	6.37	6.381
<b>710</b>	6.381	6.391	6.402	6.412	6.423	6.434	6.444	6.455	6.465	6.476	6.486
<b>720</b>	6.486	6.497	6.508	6.518	6.529	6.539	6.55	6.561	6.571	6.582	6.593
<b>730</b>	6.593	6.603	6.614	6.624	6.635	6.646	6.656	6.667	6.678	6.688	6.699
<b>740</b>	6.699	6.71	6.72	6.731	6.742	6.752	6.763	6.774	6.784	6.795	6.806
<b>750</b>	6.806	6.817	6.827	6.838	6.849	6.859	6.87	6.881	6.892	6.902	6.913
<b>760</b>	6.913	6.924	6.934	6.945	6.956	6.967	6.977	6.988	6.999	7.01	7.02
<b>770</b>	7.02	7.031	7.042	7.053	7.064	7.074	7.085	7.096	7.107	7.117	7.128
<b>780</b>	7.128	7.139	7.15	7.161	7.172	7.182	7.193	7.204	7.215	7.226	7.236
<b>790</b>	7.236	7.247	7.258	7.269	7.28	7.291	7.302	7.312	7.323	7.334	7.345
<b>800</b>	7.345	7.356	7.367	7.378	7.388	7.399	7.41	7.421	7.432	7.443	7.454
<b>810</b>	7.454	7.465	7.476	7.487	7.497	7.508	7.519	7.53	7.541	7.552	7.563
<b>820</b>	7.563	7.574	7.585	7.596	7.607	7.618	7.629	7.64	7.651	7.662	7.673
<b>830</b>	7.673	7.684	7.695	7.706	7.717	7.728	7.739	7.75	7.761	7.772	7.783
<b>840</b>	7.783	7.794	7.805	7.816	7.827	7.838	7.849	7.86	7.871	7.882	7.893
<b>850</b>	7.893	7.904	7.915	7.926	7.937	7.948	7.959	7.97	7.981	7.992	8.003
<b>860</b>	8.003	8.014	8.026	8.037	8.048	8.059	8.07	8.081	8.092	8.103	8.114
<b>870</b>	8.114	8.125	8.137	8.148	8.159	8.17	8.181	8.192	8.203	8.214	8.226
<b>880</b>	8.226	8.237	8.248	8.259	8.27	8.281	8.293	8.304	8.315	8.326	8.337
<b>890</b>	8.337	8.348	8.36	8.371	8.382	8.393	8.404	8.416	8.427	8.438	8.449
<b>900</b>	8.449	8.46	8.472	8.483	8.494	8.505	8.517	8.528	8.539	8.55	8.562
<b>910</b>	8.562	8.573	8.584	8.595	8.607	8.618	8.629	8.64	8.652	8.663	8.674
<b>920</b>	8.674	8.685	8.697	8.708	8.719	8.731	8.742	8.753	8.765	8.776	8.787
<b>930</b>	8.787	8.798	8.81	8.821	8.832	8.844	8.855	8.866	8.878	8.889	8.9
<b>940</b>	8.9	8.912	8.923	8.935	8.946	8.957	8.969	8.98	8.991	9.003	9.014
<b>950</b>	9.014	9.025	9.037	9.048	9.06	9.071	9.082	9.094	9.105	9.117	9.128
<b>960</b>	9.128	9.139	9.151	9.162	9.174	9.185	9.197	9.208	9.219	9.231	9.242
<b>970</b>	9.242	9.254	9.265	9.277	9.288	9.3	9.311	9.323	9.334	9.345	9.357

S-type: 980°C – 1460°C

°C	0	1	2	3	4	5	6	7	8	9	10
	Voltage [mV]										
<b>980</b>	9.357	9.368	9.38	9.391	9.403	9.414	9.426	9.437	9.449	9.46	9.472
<b>990</b>	9.472	9.483	9.495	9.506	9.518	9.529	9.541	9.552	9.564	9.576	9.587
<b>1000</b>	9.587	9.599	9.61	9.622	9.633	9.645	9.656	9.668	9.68	9.691	9.703
<b>1010</b>	9.703	9.714	9.726	9.737	9.749	9.761	9.772	9.784	9.795	9.807	9.819
<b>1020</b>	9.819	9.83	9.842	9.853	9.865	9.877	9.888	9.9	9.911	9.923	9.935
<b>1030</b>	9.935	9.946	9.958	9.97	9.981	9.993	10.005	10.016	10.028	10.04	10.051
<b>1040</b>	10.051	10.063	10.075	10.086	10.098	10.11	10.121	10.133	10.145	10.156	10.168
<b>1050</b>	10.168	10.18	10.191	10.203	10.215	10.227	10.238	10.25	10.262	10.273	10.285
<b>1060</b>	10.285	10.297	10.309	10.32	10.332	10.344	10.356	10.367	10.379	10.391	10.403
<b>1070</b>	10.403	10.414	10.426	10.438	10.45	10.461	10.473	10.485	10.497	10.509	10.52
<b>1080</b>	10.52	10.532	10.544	10.556	10.567	10.579	10.591	10.603	10.615	10.626	10.638
<b>1090</b>	10.638	10.65	10.662	10.674	10.686	10.697	10.709	10.721	10.733	10.745	10.757
<b>1100</b>	10.757	10.768	10.78	10.792	10.804	10.816	10.828	10.839	10.851	10.863	10.875
<b>1110</b>	10.875	10.887	10.899	10.911	10.922	10.934	10.946	10.958	10.97	10.982	10.994
<b>1120</b>	10.994	11.006	11.017	11.029	11.041	11.053	11.065	11.077	11.089	11.101	11.113
<b>1130</b>	11.113	11.125	11.136	11.148	11.16	11.172	11.184	11.196	11.208	11.22	11.232
<b>1140</b>	11.232	11.244	11.256	11.268	11.28	11.291	11.303	11.315	11.327	11.339	11.351
<b>1150</b>	11.351	11.363	11.375	11.387	11.399	11.411	11.423	11.435	11.447	11.459	11.471
<b>1160</b>	11.471	11.483	11.495	11.507	11.519	11.531	11.542	11.554	11.566	11.578	11.59
<b>1170</b>	11.59	11.602	11.614	11.626	11.638	11.65	11.662	11.674	11.686	11.698	11.71
<b>1180</b>	11.71	11.722	11.734	11.746	11.758	11.77	11.782	11.794	11.806	11.818	11.83
<b>1190</b>	11.83	11.842	11.854	11.866	11.878	11.89	11.902	11.914	11.926	11.939	11.951
<b>1200</b>	11.951	11.963	11.975	11.987	11.999	12.011	12.023	12.035	12.047	12.059	12.071
<b>1210</b>	12.071	12.083	12.095	12.107	12.119	12.131	12.143	12.155	12.167	12.179	12.191
<b>1220</b>	12.191	12.203	12.216	12.228	12.24	12.252	12.264	12.276	12.288	12.3	12.312
<b>1230</b>	12.312	12.324	12.336	12.348	12.36	12.372	12.384	12.397	12.409	12.421	12.433
<b>1240</b>	12.433	12.445	12.457	12.469	12.481	12.493	12.505	12.517	12.529	12.542	12.554
<b>1250</b>	12.554	12.566	12.578	12.59	12.602	12.614	12.626	12.638	12.65	12.662	12.675
<b>1260</b>	12.675	12.687	12.699	12.711	12.723	12.735	12.747	12.759	12.771	12.783	12.796
<b>1270</b>	12.796	12.808	12.82	12.832	12.844	12.856	12.868	12.88	12.892	12.905	12.917
<b>1280</b>	12.917	12.929	12.941	12.953	12.965	12.977	12.989	13.001	13.014	13.026	13.038
<b>1290</b>	13.038	13.05	13.062	13.074	13.086	13.098	13.111	13.123	13.135	13.147	13.159
<b>1300</b>	13.159	13.171	13.183	13.195	13.208	13.22	13.232	13.244	13.256	13.268	13.28
<b>1310</b>	13.28	13.292	13.305	13.317	13.329	13.341	13.353	13.365	13.377	13.39	13.402
<b>1320</b>	13.402	13.414	13.426	13.438	13.45	13.462	13.474	13.487	13.499	13.511	13.523
<b>1330</b>	13.523	13.535	13.547	13.559	13.572	13.584	13.596	13.608	13.62	13.632	13.644
<b>1340</b>	13.644	13.657	13.669	13.681	13.693	13.705	13.717	13.729	13.742	13.754	13.766
<b>1350</b>	13.766	13.778	13.79	13.802	13.814	13.826	13.839	13.851	13.863	13.875	13.887
<b>1360</b>	13.887	13.899	13.911	13.924	13.936	13.948	13.96	13.972	13.984	13.996	14.009
<b>1370</b>	14.009	14.021	14.033	14.045	14.057	14.069	14.081	14.094	14.106	14.118	14.13
<b>1380</b>	14.13	14.142	14.154	14.166	14.178	14.191	14.203	14.215	14.227	14.239	14.251
<b>1390</b>	14.251	14.263	14.276	14.288	14.3	14.312	14.324	14.336	14.348	14.36	14.373
<b>1400</b>	14.373	14.385	14.397	14.409	14.421	14.433	14.445	14.457	14.47	14.482	14.494
<b>1410</b>	14.494	14.506	14.518	14.53	14.542	14.554	14.567	14.579	14.591	14.603	14.615
<b>1420</b>	14.615	14.627	14.639	14.651	14.664	14.676	14.688	14.7	14.712	14.724	14.736
<b>1430</b>	14.736	14.748	14.76	14.773	14.785	14.797	14.809	14.821	14.833	14.845	14.857
<b>1440</b>	14.857	14.869	14.881	14.894	14.906	14.918	14.93	14.942	14.954	14.966	14.978
<b>1450</b>	14.978	14.99	15.002	15.015	15.027	15.039	15.051	15.063	15.075	15.087	15.099
<b>1460</b>	15.099	15.111	15.123	15.135	15.148	15.16	15.172	15.184	15.196	15.208	15.22

S-type: 1470°C – 1760°C

°C	0	1	2	3	4	5	6	7	8	9	10
	Voltage [mV]										
<b>1470</b>	15.22	15.232	15.244	15.256	15.268	15.28	15.292	15.304	15.317	15.329	15.341
<b>1480</b>	15.341	15.353	15.365	15.377	15.389	15.401	15.413	15.425	15.437	15.449	15.461
<b>1490</b>	15.461	15.473	15.485	15.497	15.509	15.521	15.534	15.546	15.558	15.57	15.582
<b>1500</b>	15.582	15.594	15.606	15.618	15.63	15.642	15.654	15.666	15.678	15.69	15.702
<b>1510</b>	15.702	15.714	15.726	15.738	15.75	15.762	15.774	15.786	15.798	15.81	15.822
<b>1520</b>	15.822	15.834	15.846	15.858	15.87	15.882	15.894	15.906	15.918	15.93	15.942
<b>1530</b>	15.942	15.954	15.966	15.978	15.99	16.002	16.014	16.026	16.038	16.05	16.062
<b>1540</b>	16.062	16.074	16.086	16.098	16.11	16.122	16.134	16.146	16.158	16.17	16.182
<b>1550</b>	16.182	16.194	16.205	16.217	16.229	16.241	16.253	16.265	16.277	16.289	16.301
<b>1560</b>	16.301	16.313	16.325	16.337	16.349	16.361	16.373	16.385	16.396	16.408	16.42
<b>1570</b>	16.42	16.432	16.444	16.456	16.468	16.48	16.492	16.504	16.516	16.527	16.539
<b>1580</b>	16.539	16.551	16.563	16.575	16.587	16.599	16.611	16.623	16.634	16.646	16.658
<b>1590</b>	16.658	16.67	16.682	16.694	16.706	16.718	16.729	16.741	16.753	16.765	16.777
<b>1600</b>	16.777	16.789	16.801	16.812	16.824	16.836	16.848	16.86	16.872	16.883	16.895
<b>1610</b>	16.895	16.907	16.919	16.931	16.943	16.954	16.966	16.978	16.99	17.002	17.013
<b>1620</b>	17.013	17.025	17.037	17.049	17.061	17.072	17.084	17.096	17.108	17.12	17.131
<b>1630</b>	17.131	17.143	17.155	17.167	17.178	17.19	17.202	17.214	17.225	17.237	17.249
<b>1640</b>	17.249	17.261	17.272	17.284	17.296	17.308	17.319	17.331	17.343	17.355	17.366
<b>1650</b>	17.366	17.378	17.39	17.401	17.413	17.425	17.437	17.448	17.46	17.472	17.483
<b>1660</b>	17.483	17.495	17.507	17.518	17.53	17.542	17.553	17.565	17.577	17.588	17.6
<b>1670</b>	17.6	17.612	17.623	17.635	17.647	17.658	17.67	17.682	17.693	17.705	17.717
<b>1680</b>	17.717	17.728	17.74	17.751	17.763	17.775	17.786	17.798	17.809	17.821	17.832
<b>1690</b>	17.832	17.844	17.855	17.867	17.878	17.89	17.901	17.913	17.924	17.936	17.947
<b>1700</b>	17.947	17.959	17.97	17.982	17.993	18.004	18.016	18.027	18.039	18.05	18.061
<b>1710</b>	18.061	18.073	18.084	18.095	18.107	18.118	18.129	18.14	18.152	18.163	18.174
<b>1720</b>	18.174	18.185	18.196	18.208	18.219	18.23	18.241	18.252	18.263	18.274	18.285
<b>1730</b>	18.285	18.297	18.308	18.319	18.33	18.341	18.352	18.362	18.373	18.384	18.395
<b>1740</b>	18.395	18.406	18.417	18.428	18.439	18.449	18.46	18.471	18.482	18.493	18.503
<b>1750</b>	18.503	18.514	18.525	18.535	18.546	18.557	18.567	18.578	18.588	18.599	18.609
<b>1760</b>	18.609	18.62	18.63	18.641	18.651	18.661	18.672	18.682	18.693		



## **R-TYPE THERMOCOUPLE**

## **THERMOCOUPLE DE TYPE R**

R-type: 0°C – 480°C

°C	0	1	2	3	4	5	6	7	8	9	10
	Voltage en mV										
<b>0</b>	0	0.005	0.011	0.016	0.021	0.027	0.032	0.038	0.043	0.049	0.054
<b>10</b>	0.054	0.06	0.065	0.071	0.077	0.082	0.088	0.094	0.1	0.105	0.111
<b>20</b>	0.111	0.117	0.123	0.129	0.135	<b>0.141</b>	0.147	0.153	0.159	0.165	0.171
<b>30</b>	0.171	0.177	0.183	0.189	0.195	0.201	0.207	0.214	0.22	0.226	0.232
<b>40</b>	0.232	0.239	0.245	0.251	0.258	0.264	0.271	0.277	0.284	0.29	0.296
<b>50</b>	0.296	0.303	0.31	0.316	0.323	0.329	0.336	0.343	0.349	0.356	0.363
<b>60</b>	0.363	0.369	0.376	0.383	0.39	0.397	0.403	0.41	0.417	0.424	0.431
<b>70</b>	0.431	0.438	0.445	0.452	0.459	0.466	0.473	0.48	0.487	0.494	0.501
<b>80</b>	0.501	0.508	0.516	0.523	0.53	0.537	0.544	0.552	0.559	0.566	0.573
<b>90</b>	0.573	0.581	0.588	0.595	0.603	0.61	0.618	0.625	0.632	0.64	0.647
<b>100</b>	0.647	0.655	0.662	0.67	0.677	0.685	0.693	0.7	0.708	0.715	0.723
<b>110</b>	0.723	0.731	0.738	0.746	0.754	0.761	0.769	0.777	0.785	0.792	0.8
<b>120</b>	0.8	0.808	0.816	0.824	0.832	0.839	0.847	0.855	0.863	0.871	0.879
<b>130</b>	0.879	0.887	0.895	0.903	0.911	0.919	0.927	0.935	0.943	0.951	0.959
<b>140</b>	0.959	0.967	0.976	0.984	0.992	1	1.008	1.016	1.025	1.033	1.041
<b>150</b>	1.041	1.049	1.058	1.066	1.074	1.082	1.091	1.099	1.107	1.116	1.124
<b>160</b>	1.124	1.132	1.141	1.149	1.158	1.166	1.175	1.183	1.191	1.2	1.208
<b>170</b>	1.208	1.217	1.225	1.234	1.242	1.251	1.26	1.268	1.277	1.285	1.294
<b>180</b>	1.294	1.303	1.311	1.32	1.329	1.337	1.346	1.355	1.363	1.372	1.381
<b>190</b>	1.381	1.389	1.398	1.407	1.416	1.425	1.433	1.442	1.451	1.46	1.469
<b>200</b>	1.469	1.477	1.486	1.495	1.504	1.513	1.522	1.531	1.54	1.549	1.558
<b>210</b>	1.558	1.567	1.575	1.584	1.593	1.602	1.611	1.62	1.629	1.639	1.648
<b>220</b>	1.648	1.657	1.666	1.675	1.684	1.693	1.702	1.711	1.72	1.729	1.739
<b>230</b>	1.739	1.748	1.757	1.766	1.775	1.784	1.794	1.803	1.812	1.821	1.831
<b>240</b>	1.831	1.84	1.849	1.858	1.868	1.877	1.886	1.895	1.905	1.914	1.923
<b>250</b>	1.923	1.933	1.942	1.951	1.961	1.97	1.98	1.989	1.998	2.008	2.017
<b>260</b>	2.017	2.027	2.036	2.046	2.055	2.064	2.074	2.083	2.093	2.102	2.112
<b>270</b>	2.112	2.121	2.131	2.14	2.15	2.159	2.169	2.179	2.188	2.198	2.207
<b>280</b>	2.207	2.217	2.226	2.236	2.246	2.255	2.265	2.275	2.284	2.294	2.304
<b>290</b>	2.304	2.313	2.323	2.333	2.342	2.352	2.362	2.371	2.381	2.391	2.401
<b>300</b>	2.401	2.41	2.42	2.43	2.44	2.449	2.459	2.469	2.479	2.488	2.498
<b>310</b>	2.498	2.508	2.518	2.528	2.538	2.547	2.557	2.567	2.577	2.587	2.597
<b>320</b>	2.597	2.607	2.617	2.626	2.636	2.646	2.656	2.666	2.676	2.686	2.696
<b>330</b>	2.696	2.706	2.716	2.726	2.736	2.746	2.756	2.766	2.776	2.786	2.796
<b>340</b>	2.796	2.806	2.816	2.826	2.836	2.846	2.856	2.866	2.876	2.886	2.896
<b>350</b>	2.896	2.906	2.916	2.926	2.937	2.947	2.957	2.967	2.977	2.987	2.997
<b>360</b>	2.997	3.007	3.018	3.028	3.038	3.048	3.058	3.068	3.079	3.089	3.099
<b>370</b>	3.099	3.109	3.119	3.13	3.14	3.15	3.16	3.171	3.181	3.191	3.201
<b>380</b>	3.201	3.212	3.222	3.232	3.242	3.253	3.263	3.273	3.284	3.294	3.304
<b>390</b>	3.304	3.315	3.325	3.335	3.346	3.356	3.366	3.377	3.387	3.397	3.408
<b>400</b>	3.408	3.418	3.428	3.439	3.449	3.46	3.47	3.48	3.491	3.501	3.512
<b>410</b>	3.512	3.522	3.533	3.543	3.553	3.564	3.574	3.585	3.595	3.606	3.616
<b>420</b>	3.616	3.627	3.637	3.648	3.658	3.669	3.679	3.69	3.7	3.711	3.721
<b>430</b>	3.721	3.732	3.742	3.753	3.764	3.774	3.785	3.795	3.806	3.816	3.827
<b>440</b>	3.827	3.838	3.848	3.859	3.869	3.88	3.891	3.901	3.912	3.922	3.933
<b>450</b>	3.933	3.944	3.954	3.965	3.976	3.986	3.997	4.008	4.018	4.029	4.04
<b>460</b>	4.04	4.05	4.061	4.072	4.083	4.093	4.104	4.115	4.125	4.136	4.147
<b>470</b>	4.147	4.158	4.168	4.179	4.19	4.201	4.211	4.222	4.233	4.244	4.255
<b>480</b>	4.255	4.265	4.276	4.287	4.298	4.309	4.319	4.33	4.341	4.352	4.363

R-type: 490°C – 970°C

°C	0	1	2	3	4	5	6	7	8	9	10
	Voltage en mV										
490	4.363	4.373	4.384	4.395	4.406	4.417	4.428	4.439	4.449	4.46	4.471
500	4.471	4.482	4.493	4.504	4.515	4.526	4.537	4.548	4.558	4.569	4.58
510	4.58	4.591	4.602	4.613	4.624	4.635	4.646	4.657	4.668	4.679	4.69
520	4.69	4.701	4.712	4.723	4.734	4.745	4.756	4.767	4.778	4.789	4.8
530	4.8	4.811	4.822	4.833	4.844	4.855	4.866	4.877	4.888	4.899	4.91
540	4.91	4.922	4.933	4.944	4.955	4.966	4.977	4.988	4.999	5.01	5.021
550	5.021	5.033	5.044	5.055	5.066	5.077	5.088	5.099	5.111	5.122	5.133
560	5.133	5.144	5.155	5.166	5.178	5.189	5.2	5.211	5.222	5.234	5.245
570	5.245	5.256	5.267	5.279	5.29	5.301	5.312	5.323	5.335	5.346	5.357
580	5.357	5.369	5.38	5.391	5.402	5.414	5.425	5.436	5.448	5.459	5.47
590	5.47	5.481	5.493	5.504	5.515	5.527	5.538	5.549	5.561	5.572	5.583
600	5.583	5.595	5.606	5.618	5.629	5.64	5.652	5.663	5.674	5.686	5.697
610	5.697	5.709	5.72	5.731	5.743	5.754	5.766	5.777	5.789	5.8	5.812
620	5.812	5.823	5.834	5.846	5.857	5.869	5.88	5.892	5.903	5.915	5.926
630	5.926	5.938	5.949	5.961	5.972	5.984	5.995	6.007	6.018	6.03	6.041
640	6.041	6.053	6.065	6.076	6.088	6.099	6.111	6.122	6.134	6.146	6.157
650	6.157	6.169	6.18	6.192	6.204	6.215	6.227	6.238	6.25	6.262	6.273
660	6.273	6.285	6.297	6.308	6.32	6.332	6.343	6.355	6.367	6.378	6.39
670	6.39	6.402	6.413	6.425	6.437	6.448	6.46	6.472	6.484	6.495	6.507
680	6.507	6.519	6.531	6.542	6.554	6.566	6.578	6.589	6.601	6.613	6.625
690	6.625	6.636	6.648	6.66	6.672	6.684	6.695	6.707	6.719	6.731	6.743
700	6.743	6.755	6.766	6.778	6.79	6.802	6.814	6.826	6.838	6.849	6.861
710	6.861	6.873	6.885	6.897	6.909	6.921	6.933	6.945	6.956	6.968	6.98
720	6.98	6.992	7.004	7.016	7.028	7.04	7.052	7.064	7.076	7.088	7.1
730	7.1	7.112	7.124	7.136	7.148	7.16	7.172	7.184	7.196	7.208	7.22
740	7.22	7.232	7.244	7.256	7.268	7.28	7.292	7.304	7.316	7.328	7.34
750	7.34	7.352	7.364	7.376	7.389	7.401	7.413	7.425	7.437	7.449	7.461
760	7.461	7.473	7.485	7.498	7.51	7.522	7.534	7.546	7.558	7.57	7.583
770	7.583	7.595	7.607	7.619	7.631	7.644	7.656	7.668	7.68	7.692	7.705
780	7.705	7.717	7.729	7.741	7.753	7.766	7.778	7.79	7.802	7.815	7.827
790	7.827	7.839	7.851	7.864	7.876	7.888	7.901	7.913	7.925	7.938	7.95
800	7.95	7.962	7.974	7.987	7.999	8.011	8.024	8.036	8.048	8.061	8.073
810	8.073	8.086	8.098	8.11	8.123	8.135	8.147	8.16	8.172	8.185	8.197
820	8.197	8.209	8.222	8.234	8.247	8.259	8.272	8.284	8.296	8.309	8.321
830	8.321	8.334	8.346	8.359	8.371	8.384	8.396	8.409	8.421	8.434	8.446
840	8.446	8.459	8.471	8.484	8.496	8.509	8.521	8.534	8.546	8.559	8.571
850	8.571	8.584	8.597	8.609	8.622	8.634	8.647	8.659	8.672	8.685	8.697
860	8.697	8.71	8.722	8.735	8.748	8.76	8.773	8.785	8.798	8.811	8.823
870	8.823	8.836	8.849	8.861	8.874	8.887	8.899	8.912	8.925	8.937	8.95
880	8.95	8.963	8.975	8.988	9.001	9.014	9.026	9.039	9.052	9.065	9.077
890	9.077	9.09	9.103	9.115	9.128	9.141	9.154	9.167	9.179	9.192	9.205
900	9.205	9.218	9.23	9.243	9.256	9.269	9.282	9.294	9.307	9.32	9.333
910	9.333	9.346	9.359	9.371	9.384	9.397	9.41	9.423	9.436	9.449	9.461
920	9.461	9.474	9.487	9.5	9.513	9.526	9.539	9.552	9.565	9.578	9.59
930	9.59	9.603	9.616	9.629	9.642	9.655	9.668	9.681	9.694	9.707	9.72
940	9.72	9.733	9.746	9.759	9.772	9.785	9.798	9.811	9.824	9.837	9.85
950	9.85	9.863	9.876	9.889	9.902	9.915	9.928	9.941	9.954	9.967	9.98
960	9.98	9.993	10.006	10.019	10.032	10.046	10.059	10.072	10.085	10.098	10.111
970	10.111	10.124	10.137	10.15	10.163	10.177	10.19	10.203	10.216	10.229	10.242

R-type: 980°C – 1460°C

°C	0	1	2	3	4	5	6	7	8	9	10
	Voltage en mV										
<b>980</b>	10.242	10.255	10.268	10.282	10.295	10.308	10.321	10.334	10.347	10.361	10.374
<b>990</b>	10.374	10.387	10.4	10.413	10.427	10.44	10.453	10.466	10.48	10.493	10.506
<b>1000</b>	10.506	10.519	10.532	10.546	10.559	10.572	10.585	10.599	10.612	10.625	10.638
<b>1010</b>	10.638	10.652	10.665	10.678	10.692	10.705	10.718	10.731	10.745	10.758	10.771
<b>1020</b>	10.771	10.785	10.798	10.811	10.825	10.838	10.851	10.865	10.878	10.891	10.905
<b>1030</b>	10.905	10.918	10.932	10.945	10.958	10.972	10.985	10.998	11.012	11.025	11.039
<b>1040</b>	11.039	11.052	11.065	11.079	11.092	11.106	11.119	11.132	11.146	11.159	11.173
<b>1050</b>	11.173	11.186	11.2	11.213	11.227	11.24	11.253	11.267	11.28	11.294	11.307
<b>1060</b>	11.307	11.321	11.334	11.348	11.361	11.375	11.388	11.402	11.415	11.429	11.442
<b>1070</b>	11.442	11.456	11.469	11.483	11.496	11.51	11.524	11.537	11.551	11.564	11.578
<b>1080</b>	11.578	11.591	11.605	11.618	11.632	11.646	11.659	11.673	11.686	11.7	11.714
<b>1090</b>	11.714	11.727	11.741	11.754	11.768	11.782	11.795	11.809	11.822	11.836	11.85
<b>1100</b>	11.85	11.863	11.877	11.891	11.904	11.918	11.931	11.945	11.959	11.972	11.986
<b>1110</b>	11.986	12	12.013	12.027	12.041	12.054	12.068	12.082	12.096	12.109	12.123
<b>1120</b>	12.123	12.137	12.15	12.164	12.178	12.191	12.205	12.219	12.233	12.246	12.26
<b>1130</b>	12.26	12.274	12.288	12.301	12.315	12.329	12.342	12.356	12.37	12.384	12.397
<b>1140</b>	12.397	12.411	12.425	12.439	12.453	12.466	12.48	12.494	12.508	12.521	12.535
<b>1150</b>	12.535	12.549	12.563	12.577	12.59	12.604	12.618	12.632	12.646	12.659	12.673
<b>1160</b>	12.673	12.687	12.701	12.715	12.729	12.742	12.756	12.77	12.784	12.798	12.812
<b>1170</b>	12.812	12.825	12.839	12.853	12.867	12.881	12.895	12.909	12.922	12.936	12.95
<b>1180</b>	12.95	12.964	12.978	12.992	13.006	13.019	13.033	13.047	13.061	13.075	13.089
<b>1190</b>	13.089	13.103	13.117	13.131	13.145	13.158	13.172	13.186	13.2	13.214	13.228
<b>1200</b>	13.228	13.242	13.256	13.27	13.284	13.298	13.311	13.325	13.339	13.353	13.367
<b>1210</b>	13.367	13.381	13.395	13.409	13.423	13.437	13.451	13.465	13.479	13.493	13.507
<b>1220</b>	13.507	13.521	13.535	13.549	13.563	13.577	13.59	13.604	13.618	13.632	13.646
<b>1230</b>	13.646	13.66	13.674	13.688	13.702	13.716	13.73	13.744	13.758	13.772	13.786
<b>1240</b>	13.786	13.8	13.814	13.828	13.842	13.856	13.87	13.884	13.898	13.912	13.926
<b>1250</b>	13.926	13.94	13.954	13.968	13.982	13.996	14.01	14.024	14.038	14.052	14.066
<b>1260</b>	14.066	14.081	14.095	14.109	14.123	14.137	14.151	14.165	14.179	14.193	14.207
<b>1270</b>	14.207	14.221	14.235	14.249	14.263	14.277	14.291	14.305	14.319	14.333	14.347
<b>1280</b>	14.347	14.361	14.375	14.39	14.404	14.418	14.432	14.446	14.46	14.474	14.488
<b>1290</b>	14.488	14.502	14.516	14.53	14.544	14.558	14.572	14.586	14.601	14.615	14.629
<b>1300</b>	14.629	14.643	14.657	14.671	14.685	14.699	14.713	14.727	14.741	14.755	14.77
<b>1310</b>	14.77	14.784	14.798	14.812	14.826	14.84	14.854	14.868	14.882	14.896	14.911
<b>1320</b>	14.911	14.925	14.939	14.953	14.967	14.981	14.995	15.009	15.023	15.037	15.052
<b>1330</b>	15.052	15.066	15.08	15.094	15.108	15.122	15.136	15.15	15.164	15.179	15.193
<b>1340</b>	15.193	15.207	15.221	15.235	15.249	15.263	15.277	15.291	15.306	15.32	15.334
<b>1350</b>	15.334	15.348	15.362	15.376	15.39	15.404	15.419	15.433	15.447	15.461	15.475
<b>1360</b>	15.475	15.489	15.503	15.517	15.531	15.546	15.56	15.574	15.588	15.602	15.616
<b>1370</b>	15.616	15.63	15.645	15.659	15.673	15.687	15.701	15.715	15.729	15.743	15.758
<b>1380</b>	15.758	15.772	15.786	15.8	15.814	15.828	15.842	15.856	15.871	15.885	15.899
<b>1390</b>	15.899	15.913	15.927	15.941	15.955	15.969	15.984	15.998	16.012	16.026	16.04
<b>1400</b>	16.04	16.054	16.068	16.082	16.097	16.111	16.125	16.139	16.153	16.167	16.181
<b>1410</b>	16.181	16.196	16.21	16.224	16.238	16.252	16.266	16.28	16.294	16.309	16.323
<b>1420</b>	16.323	16.337	16.351	16.365	16.379	16.393	16.407	16.422	16.436	16.45	16.464
<b>1430</b>	16.464	16.478	16.492	16.506	16.52	16.534	16.549	16.563	16.577	16.591	16.605
<b>1440</b>	16.605	16.619	16.633	16.647	16.662	16.676	16.69	16.704	16.718	16.732	16.746
<b>1450</b>	16.746	16.76	16.774	16.789	16.803	16.817	16.831	16.845	16.859	16.873	16.887
<b>1460</b>	16.887	16.901	16.915	16.93	16.944	16.958	16.972	16.986	17	17.014	17.028

R-type: 1470°C – 1760°C

°C	0	1	2	3	4	5	6	7	8	9	10
	Voltage en mV										
<b>1470</b>	17.028	17.042	17.056	17.071	17.085	17.099	17.113	17.127	17.141	17.155	17.169
<b>1480</b>	17.169	17.183	17.197	17.211	17.225	17.24	17.254	17.268	17.282	17.296	17.31
<b>1490</b>	17.31	17.324	17.338	17.352	17.366	17.38	17.394	17.408	17.423	17.437	17.451
<b>1500</b>	17.451	17.465	17.479	17.493	17.507	17.521	17.535	17.549	17.563	17.577	17.591
<b>1510</b>	17.591	17.605	17.619	17.633	17.647	17.661	17.676	17.69	17.704	17.718	17.732
<b>1520</b>	17.732	17.746	17.76	17.774	17.788	17.802	17.816	17.83	17.844	17.858	17.872
<b>1530</b>	17.872	17.886	17.9	17.914	17.928	17.942	17.956	17.97	17.984	17.998	18.012
<b>1540</b>	18.012	18.026	18.04	18.054	18.068	18.082	18.096	18.11	18.124	18.138	18.152
<b>1550</b>	18.152	18.166	18.18	18.194	18.208	18.222	18.236	18.25	18.264	18.278	18.292
<b>1560</b>	18.292	18.306	18.32	18.334	18.348	18.362	18.376	18.39	18.404	18.417	18.431
<b>1570</b>	18.431	18.445	18.459	18.473	18.487	18.501	18.515	18.529	18.543	18.557	18.571
<b>1580</b>	18.571	18.585	18.599	18.613	18.627	18.64	18.654	18.668	18.682	18.696	18.71
<b>1590</b>	18.71	18.724	18.738	18.752	18.766	18.779	18.793	18.807	18.821	18.835	18.849
<b>1600</b>	18.849	18.863	18.877	18.891	18.904	18.918	18.932	18.946	18.96	18.974	18.988
<b>1610</b>	18.988	19.002	19.015	19.029	19.043	19.057	19.071	19.085	19.098	19.112	19.126
<b>1620</b>	19.126	19.14	19.154	19.168	19.181	19.195	19.209	19.223	19.237	19.25	19.264
<b>1630</b>	19.264	19.278	19.292	19.306	19.319	19.333	19.347	19.361	19.375	19.388	19.402
<b>1640</b>	19.402	19.416	19.43	19.444	19.457	19.471	19.485	19.499	19.512	19.526	19.54
<b>1650</b>	19.54	19.554	19.567	19.581	19.595	19.609	19.622	19.636	19.65	19.663	19.677
<b>1660</b>	19.677	19.691	19.705	19.718	19.732	19.746	19.759	19.773	19.787	19.8	19.814
<b>1670</b>	19.814	19.828	19.841	19.855	19.869	19.882	19.896	19.91	19.923	19.937	19.951
<b>1680</b>	19.951	19.964	19.978	19.992	20.005	20.019	20.032	20.046	20.06	20.073	20.087
<b>1690</b>	20.087	20.1	20.114	20.127	20.141	20.154	20.168	20.181	20.195	20.208	20.222
<b>1700</b>	20.222	20.235	20.249	20.262	20.275	20.289	20.302	20.316	20.329	20.342	20.356
<b>1710</b>	20.356	20.369	20.382	20.396	20.409	20.422	20.436	20.449	20.462	20.475	20.488
<b>1720</b>	20.488	20.502	20.515	20.528	20.541	20.554	20.567	20.581	20.594	20.607	20.62
<b>1730</b>	20.62	20.633	20.646	20.659	20.672	20.685	20.698	20.711	20.724	20.736	20.749
<b>1740</b>	20.749	20.762	20.775	20.788	20.801	20.813	20.826	20.839	20.852	20.864	20.877
<b>1750</b>	20.877	20.89	20.902	20.915	20.928	20.94	20.953	20.965	20.978	20.99	21.003
<b>1760</b>	21.003	21.015	21.027	21.04	21.052	21.065	21.077	21.089	21.101		

## **K-TYPE THERMOCOUPLE**

## **THERMOCOUPLE DE TYPE K**

K-type: 0°C – 480°C

°C	0	1	2	3	4	5	6	7	8	9	10
	Voltage [mV]										
0	0	0.039	0.079	0.119	0.158	0.198	0.238	0.277	0.317	0.357	0.397
10	0.397	0.437	0.477	0.517	0.557	0.597	0.637	0.677	0.718	0.758	0.798
20	0.798	0.838	0.879	0.919	0.96	1	1.041	1.081	1.122	1.163	1.203
30	1.203	1.244	1.285	1.326	1.366	1.407	1.448	1.489	1.53	1.571	1.612
40	1.612	1.653	1.694	1.735	1.776	1.817	1.858	1.899	1.941	1.982	2.023
50	2.023	2.064	2.106	2.147	2.188	2.23	2.271	2.312	2.354	2.395	2.436
60	2.436	2.478	2.519	2.561	2.602	2.644	2.685	2.727	2.768	2.81	2.851
70	2.851	2.893	2.934	2.976	3.017	3.059	3.1	3.142	3.184	3.225	3.267
80	3.267	3.308	3.35	3.391	3.433	3.474	3.516	3.557	3.599	3.64	3.682
90	3.682	3.723	3.765	3.806	3.848	3.889	3.931	3.972	4.013	4.055	4.096
100	4.096	4.138	4.179	4.22	4.262	4.303	4.344	4.385	4.427	4.468	4.509
110	4.509	4.55	4.591	4.633	4.674	4.715	4.756	4.797	4.838	4.879	4.92
120	4.92	4.961	5.002	5.043	5.084	5.124	5.165	5.206	5.247	5.288	5.328
130	5.328	5.369	5.41	5.45	5.491	5.532	5.572	5.613	5.653	5.694	5.735
140	5.735	5.775	5.815	5.856	5.896	5.937	5.977	6.017	6.058	6.098	6.138
150	6.138	6.179	6.219	6.259	6.299	6.339	6.38	6.42	6.46	6.5	6.54
160	6.54	6.58	6.62	6.66	6.701	6.741	6.781	6.821	6.861	6.901	6.941
170	6.941	6.981	7.021	7.06	7.1	7.14	7.18	7.22	7.26	7.3	7.34
180	7.34	7.38	7.42	7.46	7.5	7.54	7.579	7.619	7.659	7.699	7.739
190	7.739	7.779	7.819	7.859	7.899	7.939	7.979	8.019	8.059	8.099	8.138
200	8.138	8.178	8.218	8.258	8.298	8.338	8.378	8.418	8.458	8.499	8.539
210	8.539	8.579	8.619	8.659	8.699	8.739	8.779	8.819	8.86	8.9	8.94
220	8.94	8.98	9.02	9.061	9.101	9.141	9.181	9.222	9.262	9.302	9.343
230	9.343	9.383	9.423	9.464	9.504	9.545	9.585	9.626	9.666	9.707	9.747
240	9.747	9.788	9.828	9.869	9.909	9.95	9.991	10.031	10.072	10.113	10.153
250	10.153	10.194	10.235	10.276	10.316	10.357	10.398	10.439	10.48	10.52	10.561
260	10.561	10.602	10.643	10.684	10.725	10.766	10.807	10.848	10.889	10.93	10.971
270	10.971	11.012	11.053	11.094	11.135	11.176	11.217	11.259	11.3	11.341	11.382
280	11.382	11.423	11.465	11.506	11.547	11.588	11.63	11.671	11.712	11.753	11.795
290	11.795	11.836	11.877	11.919	11.96	12.001	12.043	12.084	12.126	12.167	12.209
300	12.209	12.25	12.291	12.333	12.374	12.416	12.457	12.499	12.54	12.582	12.624
310	12.624	12.665	12.707	12.748	12.79	12.831	12.873	12.915	12.956	12.998	13.04
320	13.04	13.081	13.123	13.165	13.206	13.248	13.29	13.331	13.373	13.415	13.457
330	13.457	13.498	13.54	13.582	13.624	13.665	13.707	13.749	13.791	13.833	13.874
340	13.874	13.916	13.958	14	14.042	14.084	14.126	14.167	14.209	14.251	14.293
350	14.293	14.335	14.377	14.419	14.461	14.503	14.545	14.587	14.629	14.671	14.713
360	14.713	14.755	14.797	14.839	14.881	14.923	14.965	15.007	15.049	15.091	15.133
370	15.133	15.175	15.217	15.259	15.301	15.343	15.385	15.427	15.469	15.511	15.554
380	15.554	15.596	15.638	15.68	15.722	15.764	15.806	15.849	15.891	15.933	15.975
390	15.975	16.017	16.059	16.102	16.144	16.186	16.228	16.27	16.313	16.355	16.397
400	16.397	16.439	16.482	16.524	16.566	16.608	16.651	16.693	16.735	16.778	16.82
410	16.82	16.862	16.904	16.947	16.989	17.031	17.074	17.116	17.158	17.201	17.243
420	17.243	17.285	17.328	17.37	17.413	17.455	17.497	17.54	17.582	17.624	17.667
430	17.667	17.709	17.752	17.794	17.837	17.879	17.921	17.964	18.006	18.049	18.091
440	18.091	18.134	18.176	18.218	18.261	18.303	18.346	18.388	18.431	18.473	18.516
450	18.516	18.558	18.601	18.643	18.686	18.728	18.771	18.813	18.856	18.898	18.941
460	18.941	18.983	19.026	19.068	19.111	19.154	19.196	19.239	19.281	19.324	19.366
470	19.366	19.409	19.451	19.494	19.537	19.579	19.622	19.664	19.707	19.75	19.792
480	19.792	19.835	19.877	19.92	19.962	20.005	20.048	20.09	20.133	20.175	20.218

K-type: 490°C – 970°C

°C	0	1	2	3	4	5	6	7	8	9	10
	Voltage [mV]										
<b>490</b>	20.218	20.261	20.303	20.346	20.389	20.431	20.474	20.516	20.559	20.602	20.644
<b>500</b>	20.644	20.687	20.73	20.772	20.815	20.857	20.9	20.943	20.985	21.028	21.071
<b>510</b>	21.071	21.113	21.156	21.199	21.241	21.284	21.326	21.369	21.412	21.454	21.497
<b>520</b>	21.497	21.54	21.582	21.625	21.668	21.71	21.753	21.796	21.838	21.881	21.924
<b>530</b>	21.924	21.966	22.009	22.052	22.094	22.137	22.179	22.222	22.265	22.307	22.35
<b>540</b>	22.35	22.393	22.435	22.478	22.521	22.563	22.606	22.649	22.691	22.734	22.776
<b>550</b>	22.776	22.819	22.862	22.904	22.947	22.99	23.032	23.075	23.117	23.16	23.203
<b>560</b>	23.203	23.245	23.288	23.331	23.373	23.416	23.458	23.501	23.544	23.586	23.629
<b>570</b>	23.629	23.671	23.714	23.757	23.799	23.842	23.884	23.927	23.97	24.012	24.055
<b>580</b>	24.055	24.097	24.14	24.182	24.225	24.267	24.31	24.353	24.395	24.438	24.48
<b>590</b>	24.48	24.523	24.565	24.608	24.65	24.693	24.735	24.778	24.82	24.863	24.905
<b>600</b>	24.905	24.948	24.99	25.033	25.075	25.118	25.16	25.203	25.245	25.288	25.33
<b>610</b>	25.33	25.373	25.415	25.458	25.5	25.543	25.585	25.627	25.67	25.712	25.755
<b>620</b>	25.755	25.797	25.84	25.882	25.924	25.967	26.009	26.052	26.094	26.136	26.179
<b>630</b>	26.179	26.221	26.263	26.306	26.348	26.39	26.433	26.475	26.517	26.56	26.602
<b>640</b>	26.602	26.644	26.687	26.729	26.771	26.814	26.856	26.898	26.94	26.983	27.025
<b>650</b>	27.025	27.067	27.109	27.152	27.194	27.236	27.278	27.32	27.363	27.405	27.447
<b>660</b>	27.447	27.489	27.531	27.574	27.616	27.658	27.7	27.742	27.784	27.826	27.869
<b>670</b>	27.869	27.911	27.953	27.995	28.037	28.079	28.121	28.163	28.205	28.247	28.289
<b>680</b>	28.289	28.332	28.374	28.416	28.458	28.5	28.542	28.584	28.626	28.668	28.71
<b>690</b>	28.71	28.752	28.794	28.835	28.877	28.919	28.961	29.003	29.045	29.087	29.129
<b>700</b>	29.129	29.171	29.213	29.255	29.297	29.338	29.38	29.422	29.464	29.506	29.548
<b>710</b>	29.548	29.589	29.631	29.673	29.715	29.757	29.798	29.84	29.882	29.924	29.965
<b>720</b>	29.965	30.007	30.049	30.09	30.132	30.174	30.216	30.257	30.299	30.341	30.382
<b>730</b>	30.382	30.424	30.466	30.507	30.549	30.59	30.632	30.674	30.715	30.757	30.798
<b>740</b>	30.798	30.84	30.881	30.923	30.964	31.006	31.047	31.089	31.13	31.172	31.213
<b>750</b>	31.213	31.255	31.296	31.338	31.379	31.421	31.462	31.504	31.545	31.586	31.628
<b>760</b>	31.628	31.669	31.71	31.752	31.793	31.834	31.876	31.917	31.958	32	32.041
<b>770</b>	32.041	32.082	32.124	32.165	32.206	32.247	32.289	32.33	32.371	32.412	32.453
<b>780</b>	32.453	32.495	32.536	32.577	32.618	32.659	32.7	32.742	32.783	32.824	32.865
<b>790</b>	32.865	32.906	32.947	32.988	33.029	33.07	33.111	33.152	33.193	33.234	33.275
<b>800</b>	33.275	33.316	33.357	33.398	33.439	33.48	33.521	33.562	33.603	33.644	33.685
<b>810</b>	33.685	33.726	33.767	33.808	33.848	33.889	33.93	33.971	34.012	34.053	34.093
<b>820</b>	34.093	34.134	34.175	34.216	34.257	34.297	34.338	34.379	34.42	34.46	34.501
<b>830</b>	34.501	34.542	34.582	34.623	34.664	34.704	34.745	34.786	34.826	34.867	34.908
<b>840</b>	34.908	34.948	34.989	35.029	35.07	35.11	35.151	35.192	35.232	35.273	35.313
<b>850</b>	35.313	35.354	35.394	35.435	35.475	35.516	35.556	35.596	35.637	35.677	35.718
<b>860</b>	35.718	35.758	35.798	35.839	35.879	35.92	35.96	36	36.041	36.081	36.121
<b>870</b>	36.121	36.162	36.202	36.242	36.282	36.323	36.363	36.403	36.443	36.484	36.524
<b>880</b>	36.524	36.564	36.604	36.644	36.685	36.725	36.765	36.805	36.845	36.885	36.925
<b>890</b>	36.925	36.965	37.006	37.046	37.086	37.126	37.166	37.206	37.246	37.286	37.326
<b>900</b>	37.326	37.366	37.406	37.446	37.486	37.526	37.566	37.606	37.646	37.686	37.725
<b>910</b>	37.725	37.765	37.805	37.845	37.885	37.925	37.965	38.005	38.044	38.084	38.124
<b>920</b>	38.124	38.164	38.204	38.243	38.283	38.323	38.363	38.402	38.442	38.482	38.522
<b>930</b>	38.522	38.561	38.601	38.641	38.68	38.72	38.76	38.799	38.839	38.878	38.918
<b>940</b>	38.918	38.958	38.997	39.037	39.076	39.116	39.155	39.195	39.235	39.274	39.314
<b>950</b>	39.314	39.353	39.393	39.432	39.471	39.511	39.55	39.59	39.629	39.669	39.708
<b>960</b>	39.708	39.747	39.787	39.826	39.866	39.905	39.944	39.984	40.023	40.062	40.101
<b>970</b>	40.101	40.141	40.18	40.219	40.259	40.298	40.337	40.376	40.415	40.455	40.494



K-type: 980°C – 1370°C

°C	0	1	2	3	4	5	6	7	8	9	10
	Voltage [mV]										
<b>980</b>	40.494	40.533	40.572	40.611	40.651	40.69	40.729	40.768	40.807	40.846	40.885
<b>990</b>	40.885	40.924	40.963	41.002	41.042	41.081	41.12	41.159	41.198	41.237	41.276
<b>1000</b>	41.276	41.315	41.354	41.393	41.431	41.47	41.509	41.548	41.587	41.626	41.665
<b>1010</b>	41.665	41.704	41.743	41.781	41.82	41.859	41.898	41.937	41.976	42.014	42.053
<b>1020</b>	42.053	42.092	42.131	42.169	42.208	42.247	42.286	42.324	42.363	42.402	42.44
<b>1030</b>	42.44	42.479	42.518	42.556	42.595	42.633	42.672	42.711	42.749	42.788	42.826
<b>1040</b>	42.826	42.865	42.903	42.942	42.98	43.019	43.057	43.096	43.134	43.173	43.211
<b>1050</b>	43.211	43.25	43.288	43.327	43.365	43.403	43.442	43.48	43.518	43.557	43.595
<b>1060</b>	43.595	43.633	43.672	43.71	43.748	43.787	43.825	43.863	43.901	43.94	43.978
<b>1070</b>	43.978	44.016	44.054	44.092	44.13	44.169	44.207	44.245	44.283	44.321	44.359
<b>1080</b>	44.359	44.397	44.435	44.473	44.512	44.55	44.588	44.626	44.664	44.702	44.74
<b>1090</b>	44.74	44.778	44.816	44.853	44.891	44.929	44.967	45.005	45.043	45.081	45.119
<b>1100</b>	45.119	45.157	45.194	45.232	45.27	45.308	45.346	45.383	45.421	45.459	45.497
<b>1110</b>	45.497	45.534	45.572	45.61	45.647	45.685	45.723	45.76	45.798	45.836	45.873
<b>1120</b>	45.873	45.911	45.948	45.986	46.024	46.061	46.099	46.136	46.174	46.211	46.249
<b>1130</b>	46.249	46.286	46.324	46.361	46.398	46.436	46.473	46.511	46.548	46.585	46.623
<b>1140</b>	46.623	46.66	46.697	46.735	46.772	46.809	46.847	46.884	46.921	46.958	46.995
<b>1150</b>	46.995	47.033	47.07	47.107	47.144	47.181	47.218	47.256	47.293	47.33	47.367
<b>1160</b>	47.367	47.404	47.441	47.478	47.515	47.552	47.589	47.626	47.663	47.7	47.737
<b>1170</b>	47.737	47.774	47.811	47.848	47.884	47.921	47.958	47.995	48.032	48.069	48.105
<b>1180</b>	48.105	48.142	48.179	48.216	48.252	48.289	48.326	48.363	48.399	48.436	48.473
<b>1190</b>	48.473	48.509	48.546	48.582	48.619	48.656	48.692	48.729	48.765	48.802	48.838
<b>1200</b>	48.838	48.875	48.911	48.948	48.984	49.021	49.057	49.093	49.13	49.166	49.202
<b>1210</b>	49.202	49.239	49.275	49.311	49.348	49.384	49.42	49.456	49.493	49.529	49.565
<b>1220</b>	49.565	49.601	49.637	49.674	49.71	49.746	49.782	49.818	49.854	49.89	49.926
<b>1230</b>	49.926	49.962	49.998	50.034	50.07	50.106	50.142	50.178	50.214	50.25	50.286
<b>1240</b>	50.286	50.322	50.358	50.393	50.429	50.465	50.501	50.537	50.572	50.608	50.644
<b>1250</b>	50.644	50.68	50.715	50.751	50.787	50.822	50.858	50.894	50.929	50.965	51
<b>1260</b>	51	51.036	51.071	51.107	51.142	51.178	51.213	51.249	51.284	51.32	51.355
<b>1270</b>	51.355	51.391	51.426	51.461	51.497	51.532	51.567	51.603	51.638	51.673	51.708
<b>1280</b>	51.708	51.744	51.779	51.814	51.849	51.885	51.92	51.955	51.99	52.025	52.06
<b>1290</b>	52.06	52.095	52.13	52.165	52.2	52.235	52.27	52.305	52.34	52.375	52.41
<b>1300</b>	52.41	52.445	52.48	52.515	52.55	52.585	52.62	52.654	52.689	52.724	52.759
<b>1310</b>	52.759	52.794	52.828	52.863	52.898	52.932	52.967	53.002	53.037	53.071	53.106
<b>1320</b>	53.106	53.14	53.175	53.21	53.244	53.279	53.313	53.348	53.382	53.417	53.451
<b>1330</b>	53.451	53.486	53.52	53.555	53.589	53.623	53.658	53.692	53.727	53.761	53.795
<b>1340</b>	53.795	53.83	53.864	53.898	53.932	53.967	54.001	54.035	54.069	54.104	54.138
<b>1350</b>	54.138	54.172	54.206	54.24	54.274	54.308	54.343	54.377	54.411	54.445	54.479
<b>1360</b>	54.479	54.513	54.547	54.581	54.615	54.649	54.683	54.717	54.751	54.785	54.819
<b>1370</b>	54.819	54.852	54.886								