

MAXIMUM TEMPERATURE RANGE

Thermocouple Grade

450 to 2372° F

-270 to 1300° C

Extension Grade

32 to 392° F

0 to 200° C

LIMITS OF ERROR

(whichever is greater)

Standard: 2.2° C or 0.75% Above 0°C

2.2° C or 2.0% Below 0°C

Special: 1.1° C or 0.4%

TEMPERATURE IN DEGREES °C

REFERENCE JUNCTION AT 0°C

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**N
TYPE**

	C	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	
T H E R M O N I C	-260	-4.345	-4.345	-4.344	-4.344	-4.343	-4.342	-4.341	-4.340	-4.339	-4.337	N T Y P E
	-250	-4.338	-4.334	-4.332	-4.330	-4.328	-4.326	-4.324	-4.321	-4.319	-4.318	
	-240	-4.313	-4.310	-4.307	-4.304	-4.300	-4.297	-4.293	-4.289	-4.285	-4.281	
	-230	-4.277	-4.273	-4.268	-4.263	-4.258	-4.254	-4.248	-4.243	-4.238	-4.232	
	-220	-4.226	-4.221	-4.215	-4.209	-4.202	-4.196	-4.189	-4.183	-4.176	-4.169	
	-210	-4.162	-4.154	-4.147	-4.140	-4.132	-4.124	-4.116	-4.108	-4.100	-4.091	
	-200	-4.083	-4.074	-4.066	-4.057	-4.048	-4.038	-4.029	-4.020	-4.010	-4.000	
T H E R M O N I C	-190	-3.990	-3.980	-3.970	-3.960	-3.950	-3.939	-3.928	-3.918	-3.907	-3.898	N T Y P E
	-180	-3.884	-3.873	-3.862	-3.850	-3.838	-3.827	-3.815	-3.803	-3.790	-3.778	
	-170	-3.766	-3.753	-3.740	-3.728	-3.715	-3.702	-3.688	-3.675	-3.662	-3.648	
	-160	-3.634	-3.621	-3.607	-3.593	-3.578	-3.564	-3.550	-3.535	-3.521	-3.506	
	-150	-3.491	-3.476	-3.461	-3.446	-3.431	-3.415	-3.400	-3.384	-3.368	-3.352	
WWW.THERMONICINDIA.COM												
T H E R M O N I C	-140	-3.336	-3.320	-3.304	-3.288	-3.271	-3.255	-3.238	-3.221	-3.205	-3.188	N T Y P E
	-130	-3.171	-3.153	-3.136	-3.119	-3.101	-3.084	-3.066	-3.048	-3.030	-3.012	
	-120	-2.994	-2.976	-2.958	-2.939	-2.921	-2.902	-2.883	-2.865	-2.846	-2.827	
	-110	-2.808	-2.789	-2.769	-2.750	-2.730	-2.711	-2.691	-2.672	-2.652	-2.632	
	-100	-2.612	-2.592	-2.571	-2.551	-2.531	-2.510	-2.490	-2.469	-2.448	-2.428	
T H E R M O N I C	-90	-2.407	-2.386	-2.385	-2.344	-2.322	-2.301	-2.280	-2.258	-2.237	-2.215	N T Y P E
	-80	-2.193	-2.172	-2.150	-2.128	-2.106	-2.084	-2.082	-2.039	-2.017	-1.995	
	-70	-1.972	-1.950	-1.927	-1.905	-1.882	-1.859	-1.836	-1.813	-1.790	-1.767	
	-60	-1.744	-1.721	-1.698	-1.674	-1.651	-1.627	-1.604	-1.580	-1.557	-1.533	
	-50	-1.509	-1.485	-1.462	-1.438	-1.414	-1.390	-1.366	-1.341	-1.317	-1.293	
	-40	-1.269	-1.244	-1.220	-1.195	-1.171	-1.146	-1.122	-1.097	-1.072	-1.048	
	-30	-1.023	-0.998	-0.973	-0.948	-0.923	-0.898	-0.873	-0.848	-0.823	-0.798	
-20	-0.772	-0.747	-0.722	-0.696	-0.671	-0.646	-0.620	-0.595	-0.589	-0.544		

	C	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1		
T H E R M O N I C	-10	-0.518	-0.492	-0.467	-0.441	-0.415	-0.390	-0.364	-0.338	-0.312	-0.286	N T Y P E	
	0	-0.260	-0.234	-0.209	-0.183	-0.157	-0.131	-0.104	-0.078	-0.052	-0.026		
	0	0.000	0.026	0.052	0.078	0.104	0.130	0.156	0.182	0.208	0.235		
	10	0.261	0.287	0.313	0.340	0.366	0.393	0.419	0.446	0.472	0.499		
	20	0.525	0.552	0.578	0.605	0.632	0.659	0.685	0.712	0.739	0.766		
	30	0.793	0.820	0.847	0.874	0.901	0.928	0.955	0.983	1.010	1.037		
	40	1.065	1.092	1.119	1.147	1.174	1.202	1.229	1.257	1.284	1.312		
	50	1.340	1.368	1.395	1.423	1.451	1.479	1.507	1.535	1.563	1.501		N T Y P E
	60	1.619	1.647	1.675	1.703	1.732	1.760	1.788	1.817	1.845	1.873		
	70	1.902	1.930	1.959	1.988	2.016	2.045	2.074	2.102	2.131	2.160		
80	2.189	2.218	2.247	2.276	2.305	2.334	2.363	2.392	2.421	2.450			
90	2.480	2.509	2.538	2.568	2.597	2.826	2.656	2.685	2.715	2.744			
100	2.774	2.804	2.833	2.863	2.893	2.923	2.953	2.983	3.012	3.042			
110	3.072	3.102	3.133	3.163	3.193	3.223	3.253	3.283	3.314	3.344			
120	3.374	3.405	3.435	3.466	3.496	3.527	3.557	3.588	3.619	3.649			
130	3.680	3.711	3.742	3.772	3.803	3.834	3.865	3.896	3.927	3.958			
140	3.989	4.020	4.051	4.083	4.114	4.145	4.176	4.208	4.239	4.270			
WWW.THERMONICINDIA.COM													
T H E R M O N I C	150	4.302	4.333	4.365	4.396	4.428	4.459	4.491	4.523	4.554	4.586	N T Y P E	
	160	4.618	4.650	4.681	4.713	4.745	4.777	4.809	4.841	4.873	4.905		
	170	4.937	4.969	5.001	5.033	5.066	5.098	5.130	5.162	5.195	5.227		
	180	5.259	5.292	5.324	5.357	5.389	5.422	5.454	5.487	5.520	5.552		
	190	5.585	5.618	5.650	5.683	5.716	5.749	5.782	5.815	5.847	5.880		
	200	5.913	5.946	5.979	6.013	6.046	6.079	6.112	6.145	6.178	6.211		
	210	6.245	6.278	6.311	6.345	6.378	6.411	6.445	6.478	6.512	6.545		
	220	6.579	6.612	e.e"	6.680	8.713	15.747	6.781	6.814	6.848	6.882		
	230	6.916	6.949	6.983	7.017	7.051	7.085	7.119	7.153	7.187	7.221		
	240	7.255	7.289	7.323	7.357	7.392	7.426	7.460	7.494	7.528	7.583		
T H E R M O N I C	250	7.597	7.631	7.666	7.700	7.734	7.769	7.803	7.838	7.872	7.907	N T Y P E	
	260	7.941	7.976	8.010	8.045	8.080	8.114	8.149	8.184	8.218	8.253		
	270	8.288	8.323	8.358	8.392	8.427	8.462	8.497	8.532	8.567	8.602		
	280	8.637	8.672	8.707	8.742	8.777	8.812	8.847	8.882	8.918	8.953		
	290	8.988	9.023	9.058	9.094	9.129	9.164	9.200	9.235	9.270	9.306		
	300	9.341	9.377	9.412	9.448	9.483	9.519	9.554	9.590	9.625	9.661		
	310	9.696	9.732	9.768	9.803	9.839	9.875	9.910	9.946	9.982	10.018		
	320	10.054	10.089	10.125	10.161	10.197	10.233	10.269	10.305	10.341	10.377		
	330	10.413	10.449	10.485	10.521	10.557	10.593	10.629	10.665	10.701	10.737		
	340	10.774	10.810	10.846	10.882	10.918	10.955	10.991	11.027	11.064	11.100		

	C	0	1	2	3	4	5	6	7	8	9	
T H E R M O N I C	350	11.136	11.173	11.209	11.245	11.282	11.318	11.355	11.391	11.428	11.464	N T Y P E
	360	11.501	11.537	11.574	1.610	11.647	11.683	11.720	11.757	11.793	11.830	
	370	11.867	11.903	11.940	11.977	12.013	12.050	12.087	12.124	12.160	12.197	
	380	12.234	12.271	12.308	12.345	12.382	12.418	12.455	12.492	12.529	12.566	
	390	12.603	12.640	12.677	12.714	12.751	12.788	12.825	12.862	12.899	12.937	
T H E R M O N I C	400	12.974	13.011	13.048	13.085	13.122	13.159	13.197	13.234	13.271	13.308	N T Y P E
	410	13.346	13.383	13.420	13.457	13.495	13.532	13.569	13.607	13.644	13.682	
	420	13.719	13.756	13.794	13.831	13.869	13.906	13.944	13.981	14.019	14.056	
	430	14.094	14.131	14.169	14.206	14.244	14.281	14.319	14.356	14.394	14.432	
	440	14.469	14.507	14.545	14.582	14.620	14.658	14.695	14.733	14.771	14.809	
T H E R M O N I C	450	14.848	14.884	14.922	14.960	14.998	15.035	15.073	15.111	15.149	15.187	N T Y P E
	460	15.225	15.262	15.300	15.338	15.376	15.414	15.452	15.490	15.528	15.566	
	470	15.604	15.642	15.680	15.718	15.756	15.794	15.832	15.870	15.908	15.946	
	480	15.984	16.022	16.060	16.099	16.137	16.175	16.213	16.251	16.289	16.327	
	490	16.366	16.404	16.442	16.480	16.518	16.557	16.595	16.633	16.671	16.710	
T H E R M O N I C	500	16.748	16.786	16.824	16.883	16.901	16.939	16.978	17.016	17.054	17.093	N T Y P E
	510	17.131	17.169	17.208	17.246	17.285	17.323	17.361	17.400	17.438	17.477	
	520	17.515	17.554	17.592	17.630	17.669	17.707	17.746	17.784	17.823	17.861	
	530	17.900	17.938	17.977	18.016	18.054	18.093	18.131	18.170	18.208	18.247	
	540	18.286	18.324	18.363	18.401	18.440	18.479	18.517	18.556	18.595	18.633	
WWW.THERMONICINDIA.COM												
T H E R M O N I C	550	18.672	18.711	18.749	18.788	18.827	18.865	18.904	18.943	18.982	19.020	N T Y P E
	560	19.059	19.096	19.136	19.175	19.214	19.253	19.292	19.330	19.369	19.408	
	570	19.447	19.485	19.524	19.563	19.602	19.641	19.680	19.718	19.757	19.796	
	580	19.835	19.874	19.913	19.952	19.990	20.029	20.068	20.107	20.146	20.185	
	590	20.224	20.263	20.302	20.341	20.379	20.418	20.457	20.496	20.535	20.574	
T H E R M O N I C	600	20.613	20.652	20.691	20.730	20.769	20.808	20.847	20.886	20.925	20.964	N T Y P E
	610	21.003	21.042	21.081	21.120	21.159	21.198	21.237	21.276	21.315	21.354	
	620	21.393	21.432	21.471	21.510	21.549	21.588	21.628	21.667	21.706	21.745	
	630	21.784	21.823	21.862	21.901	21.940	21.979	22.018	22.058	22.097	22.136	
	640	22.175	22.214	22.253	22.292	22.331	22.370	22.410	22.449	22.488	22.527	
T H E R M O N I C	650	22.556	22.605	22.644	22.684	22.723	22.762	22.801	22.840	22.879	22.919	N T Y P E
	660	22.958	22.997	23.036	23.075	23.115	23.154	23.193	23.232	23.271	23.311	
	670	23.350	23.389	23.428	23.467	23.507	23.546	23.585	23.624	23.663	23.703	
	680	23.742	23.781	23.820	23.860	23.899	23.938	23.977	24.016	24.056	24.095	
	690	24.134	24.173	24.213	24.252	24.291	24.330	24.370	24.409	24.448	24.487	
T H E R M O N I C	700	24.527	24.566	24.605	24.644	24.684	24.723	24.762	24.801	24.841	24.880	N T Y P E
	710	24.919	24.959	24.998	25.037	25.076	25.116	25.155	25.194	25.233	25.273	

	C	0	1	2	3	4	5	6	7	8	9	
T H E R M O N I C	720	25.312	25.351	25.391	25.430	25.469	25.508	25.548	25.587	25.626	25.666	N T Y P E
	730	25.705	25.744	25.783	25.823	25.862	25.901	25.941	25.980	26.019	26.058	
	740	26.098	26.137	26.176	26.216	26.255	26.294	26.333	26.373	26.412	26.451	
	750	26.491	26.530	26.569	26.608	26.648	26.687	26.726	26.766	26.805	26.844	
	760	26.883	26.923	26.962	27.001	27.041	27.080	27.119	27.158	27.198	27.237	
	770	27.276	27.316	27.355	27.394	27.433	27.473	27.512	27.551	27.591	27.630	
	780	27.669	27.708	27.748	27.787	27.826	27.866	27.905	27.944	27.983	28.023	
	790	28.062	28.101	28.140	28.180	28.219	28.258	28.297	28.337	28.376	28.415	
	800	28.455	28.494	28.533	28.572	28.612	28.651	28.690	28.729	28.769	28.808	
T H E R M O N I C	810	28.847	28.886	28.926	28.965	29.004	29.043	29.083	29.122	29.161	29.200	N T Y P E
	820	29.239	29.279	29.318	29.357	29.396	29.436	29.475	29.514	29.553	29.592	
	830	29.632	29.671	29.710	29.749	29.789	29.828	29.867	29.906	29.945	29.985	
	840	30.024	30.063	30.102	30.141	30.181	30.220	30.259	30.298	30.337	30.376	
	850	30.416	30.455	30.494	30.533	30.572	30.611	30.651	30.690	30.729	30.768	
	860	30.807	30.846	30.886	30.925	30.964	31.003	31.042	31.081	31.120	31.160	
	870	31.199	31.238	31.277	31.316	31.355	31.394	31.433	31.473	31.512	31.551	
	880	31.590	31.629	31.668	31.707	31.746	31.785	31.824	31.863	31.903	31.942	
	890	31.981	32.020	32.059	32.098	32.137	32.176	32.215	32.254	32.293	32.332	
WWW.THERMONICINDIA.COM												
T H E R M O N I C	900	32.371	32.410	32.449	32.488	32.527	32.566	32.605	32.644	32.683	32.722	N T Y P E
	910	32.761	32.800	32.839	32.878	32.917	32.956	32.995	33.034	33.073	33.112	
	920	33.151	33.190	33.229	33.268	33.307	33.346	33.385	33.424	33.463	33.502	
	930	33.541	33.580	33.619	33.658	33.697	33.736	33.774	33.813	33.852	33.891	
	940	33.930	33.969	34.008	34.047	34.086	34.124	34.163	34.202	34.241	34.280	
	950	34.319	34.358	34.396	34.435	34.474	34.513	34.552	34.591	34.629	34.668	
	960	34.707	34.746	34.785	34.823	34.862	34.901	34.940	34.979	35.017	35.056	
	970	35.095	35.134	35.172	35.211	35.250	35.289	35.327	35.366	35.405	35.444	
	980	35.482	35.521	35.560	35.598	35.637	35.676	35.714	35.753	35.792	35.831	
990	35.869	35.908	35.946	35.985	36.024	36.062	36.101	36.140	36.178	36.217		
T H E R M O N I C	1000	36.256	38.294	36.333	36.371	36.410	36.449	36.487	36.526	36.564	36.603	N T Y P E
	1010	36.841	36.680	36.718	38.757	38.796	38.834	36.873	36.911	36.950	36.988	
	1020	37.027	37.065	37.104	37.142	37.181	37.219	37.258	37.296	37.334	37.373	
	1030	37.411	37.450	37.488	37.527	37.565	37.603	37.642	37.680	37.719	37.757	
	1040	37.795	37.834	37.872	37.911	37.949	37.987	38.026	38.064	38.102	38.141	
	1050	38.179	38.217	38.256	38.294	38.332	38.370	38.409	38.447	38.485	38.524	
T H E R M O N I C	1060	38.562	38.600	38.638	38.677	38.715	38.753	38.791	38.829	38.868	38.906	N T Y P E
	1070	38.944	38.982	39.020	39.059	39.097	39.135	39.173	39.211	39.249	39.287	
	1080	39.326	39.364	39.402	39.440	39.478	39.516	39.554	39.592	39.630	39.668	

	C	0	1	2	3	4	5	6	7	8	9	
T H E R M O N I C	1090	39.708	39.744	39.783	39.821	39.859	39.897	39.935	39.973	40.011	40.049	N T Y P E
	1100	40.087	40.125	40.163	40.201	40.238	40.276	40.314	40.352	40.390	40.428	
	1110	40.466	40.504	40.542	40.580	40.818	40.655	40.693	40.731	40.769	40.807	
	1120	40.845	40.883	40.920	40.958	40.996	41.034	41.072	41.109	41.147	41.185	
	1130	41.223	41.260	41.298	41.336	41.374	41.411	41.449	41.487	41.525	41.562	
	1140	41.600	41.638	41.675	41.713	41.751	41.788	41.826	41.864	41.901	41.939	
T H E R M O N I C	1150	41.976	42.014	42.052	42.089	42.127	42.164	42.202	42.239	42.277	42.314	N T Y P E
	1160	42.352	42.390	42.427	42.465	42.502	42.540	42.577	42.614	42.652	42.689	
	1170	42.727	42.764	42.802	42.839	42.877	42.914	42.951	42.989	43.026	43.064	
	1180	43.101	43.138	43.176	43.213	43.250	43.288	43.325	43.362	43.399	43.437	
	1190	43.474	43.511	43.549	43.586	43.623	43.660	43.698	43.735	43.772	43.809	
	WWW.THERMONICINDIA.COM											
T H E R M O N I C	1200	43.846	43.884	43.921	43.958	43.995	44.032	44.069	44.106	44.144	44.181	N T Y P E
	1210	44.218	44.255	44.292	44.329	44.366	44.403	44.440	44.477	44.514	44.551	
	1220	44.588	44.625	44.662	44.699	44.736	44.773	44.810	44.847	44.884	44.921	
	1230	44.958	44.995	45.032	45.069	45.105	45.142	45.179	45.216	45.253	45.290	
	1240	45.326	45.363	45.400	45.437	45.474	45.510	45.547	45.584	45.621	45.657	
T H E R M O N I C	1250	45.694	45.731	45.767	45.804	45.841	45.877	45.914	45.951	45.987	46.024	N T Y P E
	1260	46.060	46.097	46.133	46.170	46.207	46.243	46.280	46.316	46.353	46.389	
	1270	46.425	46.462	46.498	46.535	46.571	46.608	46.644	46.680	46.717	46.753	
	1280	46.789	46.826	46.862	46.898	46.935	46.971	47.007	47.043	47.079	47.116	
	1290	47.152	47.188	47.224	47.260	47.296	47.333	47.369	47.405	47.441	47.477	