

TABLE 26 Type P Thermocouple— thermoelectric voltage as a function of temperature (°F); reference junctions at 32 °F

°F	0	1	2	3	4	5	6	7	8	9	10	°F
Thermoelectric Voltage in Millivolts												
30			0.000	0.017	0.033	0.050	0.066	0.083	0.100	0.116	0.133	30
40	0.133	0.150	0.167	0.184	0.200	0.217	0.234	0.251	0.268	0.285	0.302	40
50	0.302	0.319	0.336	0.353	0.370	0.387	0.404	0.421	0.438	0.455	0.472	50
60	0.472	0.489	0.507	0.524	0.541	0.558	0.576	0.593	0.610	0.628	0.645	60
70	0.645	0.662	0.680	0.697	0.715	0.732	0.749	0.767	0.784	0.802	0.820	70
80	0.820	0.837	0.855	0.872	0.890	0.908	0.925	0.943	0.961	0.978	0.996	80
90	0.996	1.014	1.032	1.050	1.067	1.085	1.103	1.121	1.139	1.157	1.175	90
100	1.175	1.193	1.211	1.229	1.247	1.265	1.283	1.301	1.319	1.337	1.355	100
110	1.355	1.374	1.392	1.410	1.428	1.446	1.465	1.483	1.501	1.520	1.538	110
120	1.538	1.556	1.575	1.593	1.611	1.630	1.648	1.667	1.685	1.704	1.722	120
130	1.722	1.741	1.759	1.778	1.797	1.815	1.834	1.852	1.871	1.890	1.908	130
140	1.908	1.927	1.946	1.965	1.983	2.002	2.021	2.040	2.059	2.078	2.096	140
150	2.096	2.115	2.134	2.153	2.172	2.191	2.210	2.229	2.248	2.267	2.286	150
160	2.286	2.305	2.324	2.343	2.363	2.382	2.401	2.420	2.439	2.458	2.478	160
170	2.478	2.497	2.516	2.536	2.555	2.574	2.593	2.613	2.632	2.652	2.671	170
180	2.671	2.690	2.710	2.729	2.749	2.768	2.788	2.807	2.827	2.846	2.866	180
190	2.866	2.885	2.905	2.925	2.944	2.964	2.984	3.003	3.023	3.043	3.062	190
200	3.062	3.082	3.102	3.122	3.141	3.161	3.181	3.201	3.221	3.241	3.260	200
210	3.260	3.280	3.300	3.320	3.340	3.360	3.380	3.400	3.420	3.440	3.460	210
220	3.460	3.480	3.500	3.520	3.541	3.561	3.581	3.601	3.621	3.641	3.661	220
230	3.661	3.682	3.702	3.722	3.742	3.763	3.783	3.803	3.824	3.844	3.864	230
240	3.864	3.885	3.905	3.925	3.946	3.966	3.987	4.007	4.028	4.048	4.069	240
250	4.069	4.089	4.110	4.130	4.151	4.171	4.192	4.212	4.233	4.254	4.274	250
260	4.274	4.295	4.316	4.336	4.357	4.378	4.399	4.419	4.440	4.461	4.482	260
270	4.482	4.502	4.523	4.544	4.565	4.586	4.607	4.627	4.648	4.669	4.690	270
280	4.690	4.711	4.732	4.753	4.774	4.795	4.816	4.837	4.858	4.879	4.900	280
290	4.900	4.921	4.942	4.963	4.985	5.006	5.027	5.048	5.069	5.090	5.111	290
300	5.111	5.133	5.154	5.175	5.196	5.218	5.239	5.260	5.282	5.303	5.324	300
310	5.324	5.346	5.367	5.388	5.410	5.431	5.452	5.474	5.495	5.517	5.538	310
320	5.538	5.560	5.581	5.603	5.624	5.646	5.667	5.689	5.710	5.732	5.753	320
330	5.753	5.775	5.797	5.818	5.840	5.861	5.883	5.905	5.926	5.948	5.970	330
340	5.970	5.992	6.013	6.035	6.057	6.079	6.100	6.122	6.144	6.166	6.188	340
350	6.188	6.209	6.231	6.253	6.275	6.297	6.319	6.341	6.363	6.384	6.406	350
360	6.406	6.428	6.450	6.472	6.494	6.516	6.538	6.560	6.582	6.604	6.626	360
370	6.626	6.649	6.671	6.693	6.715	6.737	6.759	6.781	6.803	6.825	6.848	370
380	6.848	6.870	6.892	6.914	6.936	6.959	6.981	7.003	7.025	7.048	7.070	380
390	7.070	7.092	7.115	7.137	7.159	7.181	7.204	7.226	7.249	7.271	7.293	390
400	7.293	7.316	7.338	7.361	7.383	7.405	7.428	7.450	7.473	7.495	7.518	400
410	7.518	7.540	7.563	7.585	7.608	7.630	7.653	7.675	7.698	7.721	7.743	410
420	7.743	7.766	7.788	7.811	7.834	7.856	7.879	7.902	7.924	7.947	7.970	420
430	7.970	7.992	8.015	8.038	8.061	8.083	8.106	8.129	8.152	8.174	8.197	430
440	8.197	8.220	8.243	8.266	8.288	8.311	8.334	8.357	8.380	8.403	8.426	440
450	8.426	8.449	8.471	8.494	8.517	8.540	8.563	8.586	8.609	8.632	8.655	450
460	8.655	8.678	8.701	8.724	8.747	8.770	8.793	8.816	8.839	8.862	8.885	460
470	8.885	8.908	8.931	8.955	8.978	9.001	9.024	9.047	9.070	9.093	9.117	470
480	9.117	9.140	9.163	9.186	9.209	9.232	9.256	9.279	9.302	9.325	9.349	480
490	9.349	9.372	9.395	9.418	9.442	9.465	9.488	9.512	9.535	9.558	9.581	490
500	9.581	9.605	9.628	9.652	9.675	9.698	9.722	9.745	9.768	9.792	9.815	500
510	9.815	9.839	9.862	9.885	9.909	9.932	9.956	9.979	10.003	10.026	10.050	510
520	10.050	10.073	10.097	10.120	10.144	10.167	10.191	10.214	10.238	10.262	10.285	520
530	10.285	10.309	10.332	10.356	10.379	10.403	10.427	10.450	10.474	10.498	10.521	530
540	10.521	10.545	10.568	10.592	10.616	10.639	10.663	10.687	10.711	10.734	10.758	540
°F	0	1	2	3	4	5	6	7	8	9	10	°F

TABLE 26 Type P Thermocouple— thermoelectric voltage as a function of temperature (°F); reference junctions at 32 °F

°F	0	1	2	3	4	5	6	7	8	9	10	°F
Thermoelectric Voltage in Millivolts												
550	10.758	10.782	10.805	10.829	10.853	10.877	10.900	10.924	10.948	10.972	10.995	550
560	10.995	11.019	11.043	11.067	11.091	11.114	11.138	11.162	11.186	11.210	11.234	560
570	11.234	11.258	11.281	11.305	11.329	11.353	11.377	11.401	11.425	11.449	11.473	570
580	11.473	11.497	11.520	11.544	11.568	11.592	11.616	11.640	11.664	11.688	11.712	580
590	11.712	11.736	11.760	11.784	11.808	11.832	11.856	11.880	11.904	11.928	11.952	590
600	11.952	11.976	12.000	12.024	12.049	12.073	12.097	12.121	12.145	12.169	12.193	600
610	12.193	12.217	12.241	12.265	12.290	12.314	12.338	12.362	12.386	12.410	12.434	610
620	12.434	12.459	12.483	12.507	12.531	12.555	12.580	12.604	12.628	12.652	12.676	620
630	12.676	12.701	12.725	12.749	12.773	12.798	12.822	12.846	12.870	12.895	12.919	630
640	12.919	12.943	12.967	12.992	13.016	13.040	13.065	13.089	13.113	13.138	13.162	640
650	13.162	13.186	13.211	13.235	13.259	13.284	13.308	13.332	13.357	13.381	13.405	650
660	13.405	13.430	13.454	13.479	13.503	13.527	13.552	13.576	13.601	13.625	13.649	660
670	13.649	13.674	13.698	13.723	13.747	13.772	13.796	13.821	13.845	13.869	13.894	670
680	13.894	13.918	13.943	13.967	13.992	14.016	14.041	14.065	14.090	14.114	14.139	680
690	14.139	14.163	14.188	14.212	14.237	14.262	14.286	14.311	14.335	14.360	14.384	690
700	14.384	14.409	14.433	14.458	14.483	14.507	14.532	14.556	14.581	14.606	14.630	700
710	14.630	14.655	14.679	14.704	14.729	14.753	14.778	14.802	14.827	14.852	14.876	710
720	14.876	14.901	14.926	14.950	14.975	15.000	15.024	15.049	15.074	15.098	15.123	720
730	15.123	15.148	15.172	15.197	15.222	15.246	15.271	15.296	15.320	15.345	15.370	730
740	15.370	15.395	15.419	15.444	15.469	15.493	15.518	15.543	15.568	15.592	15.617	740
750	15.617	15.642	15.667	15.691	15.716	15.741	15.766	15.790	15.815	15.840	15.865	750
760	15.865	15.890	15.914	15.939	15.964	15.989	16.013	16.038	16.063	16.088	16.113	760
770	16.113	16.137	16.162	16.187	16.212	16.237	16.262	16.286	16.311	16.336	16.361	770
780	16.361	16.386	16.411	16.435	16.460	16.485	16.510	16.535	16.560	16.585	16.609	780
790	16.609	16.634	16.659	16.684	16.709	16.734	16.759	16.784	16.808	16.833	16.858	790
800	16.858	16.883	16.908	16.933	16.958	16.983	17.008	17.032	17.057	17.082	17.107	800
810	17.107	17.132	17.157	17.182	17.207	17.232	17.257	17.282	17.307	17.331	17.356	810
820	17.356	17.381	17.406	17.431	17.456	17.481	17.506	17.531	17.556	17.581	17.606	820
830	17.606	17.631	17.656	17.681	17.706	17.731	17.756	17.781	17.806	17.830	17.855	830
840	17.855	17.880	17.905	17.930	17.955	17.980	18.005	18.030	18.055	18.080	18.105	840
850	18.105	18.130	18.155	18.180	18.205	18.230	18.255	18.280	18.305	18.330	18.355	850
860	18.355	18.380	18.405	18.430	18.455	18.480	18.505	18.530	18.555	18.580	18.605	860
870	18.605	18.630	18.655	18.680	18.705	18.730	18.755	18.781	18.806	18.831	18.856	870
880	18.856	18.881	18.906	18.931	18.956	18.981	19.006	19.031	19.056	19.081	19.106	880
890	19.106	19.131	19.156	19.181	19.206	19.231	19.256	19.281	19.306	19.331	19.356	890
900	19.356	19.381	19.407	19.432	19.457	19.482	19.507	19.532	19.557	19.582	19.607	900
910	19.607	19.632	19.657	19.682	19.707	19.732	19.757	19.782	19.807	19.833	19.858	910
920	19.858	19.883	19.908	19.933	19.958	19.983	20.008	20.033	20.058	20.083	20.108	920
930	20.108	20.133	20.158	20.183	20.209	20.234	20.259	20.284	20.309	20.334	20.359	930
940	20.359	20.384	20.409	20.434	20.459	20.484	20.509	20.534	20.560	20.585	20.610	940
950	20.610	20.635	20.660	20.685	20.710	20.735	20.760	20.785	20.810	20.835	20.860	950
960	20.860	20.885	20.911	20.936	20.961	20.986	21.011	21.036	21.061	21.086	21.111	960
970	21.111	21.136	21.161	21.186	21.211	21.237	21.262	21.287	21.312	21.337	21.362	970
980	21.362	21.387	21.412	21.437	21.462	21.487	21.512	21.537	21.562	21.587	21.613	980
990	21.613	21.638	21.663	21.688	21.713	21.738	21.763	21.788	21.813	21.838	21.863	990
1000	21.863	21.888	21.913	21.938	21.963	21.988	22.014	22.039	22.064	22.089	22.114	1000
1010	22.114	22.139	22.164	22.189	22.214	22.239	22.264	22.289	22.314	22.339	22.364	1010
1020	22.364	22.389	22.414	22.439	22.464	22.489	22.515	22.540	22.565	22.590	22.615	1020
1030	22.615	22.640	22.665	22.690	22.715	22.740	22.765	22.790	22.815	22.840	22.865	1030
1040	22.865	22.890	22.915	22.940	22.965	22.990	23.015	23.040	23.065	23.090	23.115	1040

°F 0 1 2 3 4 5 6 7 8 9 10 °F

TABLE 26 Type P Thermocouple— thermoelectric voltage as a function of temperature (°F); reference junctions at 32 °F

°F	0	1	2	3	4	5	6	7	8	9	10	°F
Thermoelectric Voltage in Millivolts												
1050	23.115	23.140	23.165	23.190	23.215	23.240	23.265	23.290	23.315	23.340	23.365	1050
1060	23.365	23.390	23.415	23.440	23.465	23.490	23.515	23.540	23.565	23.590	23.615	1060
1070	23.615	23.640	23.665	23.690	23.715	23.740	23.765	23.790	23.815	23.840	23.865	1070
1080	23.865	23.890	23.915	23.940	23.965	23.990	24.015	24.040	24.065	24.090	24.115	1080
1090	24.115	24.139	24.164	24.189	24.214	24.239	24.264	24.289	24.314	24.339	24.364	1090
1100	24.364	24.389	24.414	24.439	24.464	24.489	24.514	24.538	24.563	24.588	24.613	1100
1110	24.613	24.638	24.663	24.688	24.713	24.738	24.763	24.788	24.812	24.837	24.862	1110
1120	24.862	24.887	24.912	24.937	24.962	24.987	25.012	25.036	25.061	25.086	25.111	1120
1130	25.111	25.136	25.161	25.186	25.210	25.235	25.260	25.285	25.310	25.335	25.360	1130
1140	25.360	25.384	25.409	25.434	25.459	25.484	25.509	25.533	25.558	25.583	25.608	1140
1150	25.608	25.633	25.658	25.682	25.707	25.732	25.757	25.782	25.806	25.831	25.856	1150
1160	25.856	25.881	25.906	25.930	25.955	25.980	26.005	26.029	26.054	26.079	26.104	1160
1170	26.104	26.129	26.153	26.178	26.203	26.228	26.252	26.277	26.302	26.327	26.351	1170
1180	26.351	26.376	26.401	26.426	26.450	26.475	26.500	26.524	26.549	26.574	26.599	1180
1190	26.599	26.623	26.648	26.673	26.697	26.722	26.747	26.771	26.796	26.821	26.845	1190
1200	26.845	26.870	26.895	26.919	26.944	26.969	26.993	27.018	27.043	27.067	27.092	1200
1210	27.092	27.117	27.141	27.166	27.191	27.215	27.240	27.265	27.289	27.314	27.338	1210
1220	27.338	27.363	27.388	27.412	27.437	27.461	27.486	27.511	27.535	27.560	27.584	1220
1230	27.584	27.609	27.633	27.658	27.683	27.707	27.732	27.756	27.781	27.805	27.830	1230
1240	27.830	27.854	27.879	27.903	27.928	27.953	27.977	28.002	28.026	28.051	28.075	1240
1250	28.075	28.100	28.124	28.149	28.173	28.198	28.222	28.247	28.271	28.295	28.320	1250
1260	28.320	28.344	28.369	28.393	28.418	28.442	28.467	28.491	28.516	28.540	28.564	1260
1270	28.564	28.589	28.613	28.638	28.662	28.686	28.711	28.735	28.760	28.784	28.808	1270
1280	28.808	28.833	28.857	28.882	28.906	28.930	28.955	28.979	29.003	29.028	29.052	1280
1290	29.052	29.076	29.101	29.125	29.149	29.174	29.198	29.222	29.247	29.271	29.295	1290
1300	29.295	29.320	29.344	29.368	29.392	29.417	29.441	29.465	29.490	29.514	29.538	1300
1310	29.538	29.562	29.587	29.611	29.635	29.659	29.684	29.708	29.732	29.756	29.780	1310
1320	29.780	29.805	29.829	29.853	29.877	29.901	29.926	29.950	29.974	29.998	30.022	1320
1330	30.022	30.046	30.071	30.095	30.119	30.143	30.167	30.191	30.215	30.240	30.264	1330
1340	30.264	30.288	30.312	30.336	30.360	30.384	30.408	30.432	30.457	30.481	30.505	1340
1350	30.505	30.529	30.553	30.577	30.601	30.625	30.649	30.673	30.697	30.721	30.745	1350
1360	30.745	30.769	30.793	30.817	30.841	30.865	30.889	30.913	30.937	30.961	30.985	1360
1370	30.985	31.009	31.033	31.057	31.081	31.105	31.129	31.153	31.177	31.201	31.225	1370
1380	31.225	31.248	31.272	31.296	31.320	31.344	31.368	31.392	31.416	31.440	31.463	1380
1390	31.463	31.487	31.511	31.535	31.559	31.583	31.607	31.631	31.654	31.678	31.702	1390
1400	31.702	31.726	31.750	31.774	31.797	31.821	31.845	31.869	31.893	31.916	31.940	1400
1410	31.940	31.964	31.988	32.011	32.035	32.059	32.083	32.107	32.130	32.154	32.178	1410
1420	32.178	32.202	32.225	32.249	32.273	32.296	32.320	32.344	32.368	32.391	32.415	1420
1430	32.415	32.439	32.462	32.486	32.510	32.533	32.557	32.581	32.604	32.628	32.652	1430
1440	32.652	32.675	32.699	32.723	32.746	32.770	32.794	32.817	32.841	32.864	32.888	1440
1450	32.888	32.912	32.935	32.959	32.982	33.006	33.030	33.053	33.077	33.100	33.124	1450
1460	33.124	33.147	33.171	33.195	33.218	33.242	33.265	33.289	33.312	33.336	33.359	1460
1470	33.359	33.383	33.406	33.430	33.453	33.477	33.500	33.524	33.547	33.571	33.594	1470
1480	33.594	33.618	33.641	33.664	33.688	33.711	33.735	33.758	33.782	33.805	33.828	1480
1490	33.828	33.852	33.875	33.899	33.922	33.946	33.969	33.992	34.016	34.039	34.062	1490
1500	34.062	34.086	34.109	34.132	34.156	34.179	34.203	34.226	34.249	34.273	34.296	1500
1510	34.296	34.319	34.342	34.366	34.389	34.412	34.436	34.459	34.482	34.506	34.529	1510
1520	34.529	34.552	34.575	34.599	34.622	34.645	34.668	34.692	34.715	34.738	34.761	1520
1530	34.761	34.784	34.808	34.831	34.854	34.877	34.900	34.924	34.947	34.970	34.993	1530
1540	34.993	35.016	35.040	35.063	35.086	35.109	35.132	35.155	35.178	35.202	35.225	1540

°F	0	1	2	3	4	5	6	7	8	9	10	°F
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TABLE 26 Type P Thermocouple— thermoelectric voltage as a function of temperature (°F); reference junctions at 32 °F



°F	0	1	2	3	4	5	6	7	8	9	10	°F
Thermoelectric Voltage in Millivolts												
1550	35.225	35.248	35.271	35.294	35.317	35.340	35.363	35.386	35.409	35.433	35.456	1550
1560	35.456	35.479	35.502	35.525	35.548	35.571	35.594	35.617	35.640	35.663	35.686	1560
1570	35.686	35.709	35.732	35.755	35.778	35.801	35.824	35.847	35.870	35.893	35.916	1570
1580	35.916	35.939	35.962	35.985	36.008	36.031	36.054	36.077	36.099	36.122	36.145	1580
1590	36.145	36.168	36.191	36.214	36.237	36.260	36.283	36.306	36.328	36.351	36.374	1590
1600	36.374	36.397	36.420	36.443	36.466	36.488	36.511	36.534	36.557	36.580	36.603	1600
1610	36.603	36.625	36.648	36.671	36.694	36.716	36.739	36.762	36.785	36.808	36.830	1610
1620	36.830	36.853	36.876	36.899	36.921	36.944	36.967	36.989	37.012	37.035	37.058	1620
1630	37.058	37.080	37.103	37.126	37.148	37.171	37.194	37.216	37.239	37.262	37.284	1630
1640	37.284	37.307	37.330	37.352	37.375	37.398	37.420	37.443	37.465	37.488	37.511	1640
1650	37.511	37.533	37.556	37.578	37.601	37.623	37.646	37.669	37.691	37.714	37.736	1650
1660	37.736	37.759	37.781	37.804	37.826	37.849	37.871	37.894	37.916	37.939	37.961	1660
1670	37.961	37.984	38.006	38.029	38.051	38.074	38.096	38.119	38.141	38.163	38.186	1670
1680	38.186	38.208	38.231	38.253	38.275	38.298	38.320	38.343	38.365	38.387	38.410	1680
1690	38.410	38.432	38.455	38.477	38.499	38.522	38.544	38.566	38.589	38.611	38.633	1690
1700	38.633	38.656	38.678	38.700	38.722	38.745	38.767	38.789	38.812	38.834	38.856	1700
1710	38.856	38.878	38.901	38.923	38.945	38.967	38.990	39.012	39.034	39.056	39.078	1710
1720	39.078	39.101	39.123	39.145	39.167	39.189	39.211	39.234	39.256	39.278	39.300	1720
1730	39.300	39.322	39.344	39.367	39.389	39.411	39.433	39.455	39.477	39.499	39.521	1730
1740	39.521	39.543	39.565	39.588	39.610	39.632	39.654	39.676	39.698	39.720	39.742	1740
1750	39.742	39.764	39.786	39.808	39.830	39.852	39.874	39.896	39.918	39.940	39.962	1750
1760	39.962	39.984	40.006	40.028	40.050	40.072	40.094	40.116	40.137	40.159	40.181	1760
1770	40.181	40.203	40.225	40.247	40.269	40.291	40.313	40.335	40.356	40.378	40.400	1770
1780	40.400	40.422	40.444	40.466	40.487	40.509	40.531	40.553	40.575	40.597	40.618	1780
1790	40.618	40.640	40.662	40.684	40.705	40.727	40.749	40.771	40.793	40.814	40.836	1790
1800	40.836	40.858	40.879	40.901	40.923	40.945	40.966	40.988	41.010	41.031	41.053	1800
1810	41.053	41.075	41.096	41.118	41.140	41.161	41.183	41.205	41.226	41.248	41.270	1810
1820	41.270	41.291	41.313	41.334	41.356	41.378	41.399	41.421	41.442	41.464	41.485	1820
1830	41.485	41.507	41.529	41.550	41.572	41.593	41.615	41.636	41.658	41.679	41.701	1830
1840	41.701	41.722	41.744	41.765	41.787	41.808	41.830	41.851	41.873	41.894	41.915	1840
1850	41.915	41.937	41.958	41.980	42.001	42.023	42.044	42.065	42.087	42.108	42.129	1850
1860	42.129	42.151	42.172	42.194	42.215	42.236	42.258	42.279	42.300	42.322	42.343	1860
1870	42.343	42.364	42.386	42.407	42.428	42.449	42.471	42.492	42.513	42.535	42.556	1870
1880	42.556	42.577	42.598	42.620	42.641	42.662	42.683	42.704	42.726	42.747	42.768	1880
1890	42.768	42.789	42.810	42.832	42.853	42.874	42.895	42.916	42.937	42.959	42.980	1890
1900	42.980	43.001	43.022	43.043	43.064	43.085	43.106	43.128	43.149	43.170	43.191	1900
1910	43.191	43.212	43.233	43.254	43.275	43.296	43.317	43.338	43.359	43.380	43.401	1910
1920	43.401	43.422	43.443	43.464	43.485	43.506	43.527	43.548	43.569	43.590	43.611	1920
1930	43.611	43.632	43.653	43.674	43.695	43.716	43.737	43.758	43.778	43.799	43.820	1930
1940	43.820	43.841	43.862	43.883	43.904	43.925	43.945	43.966	43.987	44.008	44.029	1940
1950	44.029	44.050	44.070	44.091	44.112	44.133	44.154	44.175	44.195	44.216	44.237	1950
1960	44.237	44.258	44.278	44.299	44.320	44.341	44.361	44.382	44.403	44.423	44.444	1960
1970	44.444	44.465	44.486	44.506	44.527	44.548	44.568	44.589	44.610	44.630	44.651	1970
1980	44.651	44.672	44.692	44.713	44.733	44.754	44.775	44.795	44.816	44.836	44.857	1980
1990	44.857	44.878	44.898	44.919	44.939	44.960	44.980	45.001	45.021	45.042	45.063	1990
2000	45.063	45.083	45.104	45.124	45.145	45.165	45.186	45.206	45.226	45.247	45.267	2000
2010	45.267	45.288	45.308	45.329	45.349	45.370	45.390	45.410	45.431	45.451	45.472	2010
2020	45.472	45.492	45.512	45.533	45.553	45.574	45.594	45.614	45.635	45.655	45.675	2020
2030	45.675	45.696	45.716	45.736	45.757	45.777	45.797	45.817	45.838	45.858	45.878	2030
2040	45.878	45.899	45.919	45.939	45.959	45.980	46.000	46.020	46.040	46.060	46.081	2040
°F	0	1	2	3	4	5	6	7	8	9	10	°F

TABLE 26 Type P Thermocouple— thermoelectric voltage as a function of temperature (°F); reference junctions at 32 °F

°F	0	1	2	3	4	5	6	7	8	9	10	°F
Thermoelectric Voltage in Millivolts												
2050	46.081	46.101	46.121	46.141	46.161	46.182	46.202	46.222	46.242	46.262	46.282	2050
2060	46.282	46.303	46.323	46.343	46.363	46.383	46.403	46.423	46.443	46.463	46.484	2060
2070	46.484	46.504	46.524	46.544	46.564	46.584	46.604	46.624	46.644	46.664	46.684	2070
2080	46.684	46.704	46.724	46.744	46.764	46.784	46.804	46.824	46.844	46.864	46.884	2080
2090	46.884	46.904	46.924	46.944	46.964	46.984	47.004	47.023	47.043	47.063	47.083	2090
2100	47.083	47.103	47.123	47.143	47.163	47.183	47.202	47.222	47.242	47.262	47.282	2100
2110	47.282	47.302	47.321	47.341	47.361	47.381	47.401	47.420	47.440	47.460	47.480	2110
2120	47.480	47.500	47.519	47.539	47.559	47.579	47.598	47.618	47.638	47.657	47.677	2120
2130	47.677	47.697	47.717	47.736	47.756	47.776	47.795	47.815	47.835	47.854	47.874	2130
2140	47.874	47.894	47.913	47.933	47.952	47.972	47.992	48.011	48.031	48.050	48.070	2140
2150	48.070	48.090	48.109	48.129	48.148	48.168	48.187	48.207	48.226	48.246	48.265	2150
2160	48.265	48.285	48.304	48.324	48.343	48.363	48.382	48.402	48.421	48.441	48.460	2160
2170	48.460	48.480	48.499	48.519	48.538	48.557	48.577	48.596	48.616	48.635	48.654	2170
2180	48.654	48.674	48.693	48.713	48.732	48.751	48.771	48.790	48.809	48.829	48.848	2180
2190	48.848	48.867	48.887	48.906	48.925	48.945	48.964	48.983	49.002	49.022	49.041	2190
2200	49.041	49.060	49.079	49.099	49.118	49.137	49.156	49.176	49.195	49.214	49.233	2200
2210	49.233	49.252	49.272	49.291	49.310	49.329	49.348	49.367	49.387	49.406	49.425	2210
2220	49.425	49.444	49.463	49.482	49.501	49.520	49.540	49.559	49.578	49.597	49.616	2220
2230	49.616	49.635	49.654	49.673	49.692	49.711	49.730	49.749	49.768	49.787	49.806	2230
2240	49.806	49.825	49.844	49.863	49.882	49.901	49.920	49.939	49.958	49.977	49.996	2240
2250	49.996	50.015	50.034	50.053	50.072	50.091	50.110	50.128	50.147	50.166	50.185	2250
2260	50.185	50.204	50.223	50.242	50.261	50.279	50.298	50.317	50.336	50.355	50.374	2260
2270	50.374	50.392	50.411	50.430	50.449	50.467	50.486	50.505	50.524	50.543	50.561	2270
2280	50.561	50.580	50.599	50.618	50.636	50.655	50.674	50.692	50.711	50.730	50.748	2280
2290	50.748	50.767	50.786	50.804	50.823	50.842	50.860	50.879	50.898	50.916	50.935	2290
2300	50.935	50.954	50.972	50.991	51.009	51.028	51.047	51.065	51.084	51.102	51.121	2300
2310	51.121	51.139	51.158	51.176	51.195	51.213	51.232	51.250	51.269	51.287	51.306	2310
2320	51.306	51.324	51.343	51.361	51.380	51.398	51.417	51.435	51.454	51.472	51.490	2320
2330	51.490	51.509	51.527	51.546	51.564	51.582	51.601	51.619	51.638	51.656	51.674	2330
2340	51.674	51.693	51.711	51.729	51.748	51.766	51.784	51.803	51.821	51.839	51.858	2340
2350	51.858	51.876	51.894	51.912	51.931	51.949	51.967	51.985	52.004	52.022	52.040	2350
2360	52.040	52.058	52.076	52.095	52.113	52.131	52.149	52.167	52.186	52.204	52.222	2360
2370	52.222	52.240	52.258	52.276	52.294	52.313	52.331	52.349	52.367	52.385	52.403	2370
2380	52.403	52.421	52.439	52.457	52.475	52.493	52.511	52.529	52.548	52.566	52.584	2380
2390	52.584	52.602	52.620	52.638	52.656	52.674	52.692	52.710	52.727	52.745	52.763	2390
2400	52.763	52.781	52.799	52.817	52.835	52.853	52.871	52.889	52.907	52.925	52.943	2400
2410	52.943	52.960	52.978	52.996	53.014	53.032	53.050	53.067	53.085	53.103	53.121	2410
2420	53.121	53.139	53.157	53.174	53.192	53.210	53.228	53.245	53.263	53.281	53.299	2420
2430	53.299	53.316	53.334	53.352	53.370	53.387	53.405	53.423	53.440	53.458	53.476	2430
2440	53.476	53.493	53.511	53.529	53.546	53.564	53.582	53.599	53.617	53.634	53.652	2440
2450	53.652	53.670	53.687	53.705	53.722	53.740	53.757	53.775	53.793	53.810	53.828	2450
2460	53.828	53.845	53.863	53.880	53.898	53.915	53.933	53.950	53.968	53.985	54.003	2460
2470	54.003	54.020	54.037	54.055	54.072	54.090	54.107	54.125	54.142	54.159	54.177	2470
2480	54.177	54.194	54.211	54.229	54.246	54.264	54.281	54.298	54.316	54.333	54.350	2480
2490	54.350	54.367	54.385	54.402	54.419	54.437	54.454	54.471	54.488	54.506	54.523	2490
2500	54.523	54.540	54.557	54.574	54.592	54.609	54.626	54.643	54.660	54.678	54.695	2500
2510	54.695	54.712	54.729	54.746	54.763	54.780	54.798	54.815	54.832	54.849	54.866	2510
2520	54.866	54.883	54.900	54.917	54.934	54.951	54.968	54.985	55.002	55.019	55.036	2520
2530	55.036	55.053	55.070	55.087	55.104	55.121	55.138	55.155	55.172	55.189	55.206	2530
2540	55.206	55.223	55.240	55.257								2540

°F 0 1 2 3 4 5 6 7 8 9 10 °F