

Thermocouple Type B

Thermocouple B Reference Table


Reference Table

°C	Thermoelectric Voltage [mV]									
	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
0	0	0	0	-0,001	-0,001	-0,001	-0,001	-0,001	-0,002	-0,002
10	-0,002	-0,002	-0,002	-0,002	-0,002	-0,002	-0,002	-0,002	-0,003	-0,003
20	-0,003	-0,003	-0,003	-0,003	-0,003	-0,002	-0,002	-0,002	-0,002	-0,002
30	-0,002	-0,002	-0,002	-0,002	-0,002	-0,001	-0,001	-0,001	-0,001	-0,001
40	0	0	0	0	0	0,001	0,001	0,001	0,002	0,002
50	0,002	0,003	0,003	0,003	0,004	0,004	0,004	0,005	0,005	0,006
60	0,006	0,007	0,007	0,008	0,008	0,009	0,009	0,01	0,01	0,011
70	0,011	0,012	0,012	0,013	0,014	0,014	0,015	0,015	0,016	0,017
80	0,017	0,018	0,019	0,02	0,02	0,021	0,022	0,022	0,023	0,024
90	0,025	0,026	0,026	0,027	0,028	0,029	0,03	0,031	0,031	0,032
100	0,033	0,034	0,035	0,036	0,037	0,038	0,039	0,04	0,041	0,042
110	0,043	0,044	0,045	0,046	0,047	0,048	0,049	0,05	0,051	0,052
120	0,053	0,055	0,056	0,057	0,058	0,059	0,06	0,062	0,063	0,064
130	0,065	0,066	0,068	0,069	0,07	0,072	0,073	0,074	0,075	0,077
140	0,078	0,079	0,081	0,082	0,084	0,085	0,086	0,088	0,089	0,091
150	0,092	0,094	0,095	0,096	0,098	0,099	0,101	0,102	0,104	0,106
160	0,107	0,109	0,11	0,112	0,113	0,115	0,117	0,118	0,12	0,122
170	0,123	0,125	0,127	0,128	0,13	0,132	0,134	0,135	0,137	0,139
180	0,141	0,142	0,144	0,146	0,148	0,15	0,151	0,153	0,155	0,157
190	0,159	0,161	0,163	0,165	0,166	0,168	0,17	0,172	0,174	0,176
200	0,178	0,18	0,182	0,184	0,186	0,188	0,19	0,192	0,195	0,197
210	0,199	0,201	0,203	0,205	0,207	0,209	0,212	0,214	0,216	0,218
220	0,22	0,222	0,225	0,227	0,229	0,231	0,234	0,236	0,238	0,241
230	0,243	0,245	0,248	0,25	0,252	0,255	0,257	0,259	0,262	0,264
240	0,267	0,269	0,271	0,274	0,276	0,279	0,281	0,284	0,286	0,289
250	0,291	0,294	0,296	0,299	0,301	0,304	0,307	0,309	0,312	0,314
260	0,317	0,32	0,322	0,325	0,328	0,33	0,333	0,336	0,338	0,341
270	0,344	0,347	0,349	0,352	0,355	0,358	0,36	0,363	0,366	0,369
280	0,372	0,375	0,377	0,38	0,383	0,386	0,389	0,392	0,395	0,398
290	0,401	0,404	0,407	0,41	0,413	0,416	0,419	0,422	0,425	0,428
300	0,431	0,434	0,437	0,44	0,443	0,446	0,449	0,452	0,455	0,458
310	0,462	0,465	0,468	0,471	0,474	0,478	0,481	0,484	0,487	0,49

(continues)

°C	Thermoelectric Voltage [mV]									
	0	1	2	3	4	5	6	7	8	9
320	0,494	0,497	0,5	0,503	0,507	0,51	0,513	0,517	0,52	0,523
330	0,527	0,53	0,533	0,537	0,54	0,544	0,547	0,55	0,554	0,557
340	0,561	0,564	0,568	0,571	0,575	0,578	0,582	0,585	0,589	0,592
350	0,596	0,599	0,603	0,607	0,61	0,614	0,617	0,621	0,625	0,628
360	0,632	0,636	0,639	0,643	0,647	0,65	0,654	0,658	0,662	0,665
370	0,669	0,673	0,677	0,68	0,684	0,688	0,692	0,696	0,7	0,703
380	0,707	0,711	0,715	0,719	0,723	0,727	0,731	0,735	0,738	0,742
390	0,746	0,75	0,754	0,758	0,762	0,766	0,77	0,774	0,778	0,782
400	0,787	0,791	0,795	0,799	0,803	0,807	0,811	0,815	0,819	0,824
410	0,828	0,832	0,836	0,84	0,844	0,849	0,853	0,857	0,861	0,866
420	0,87	0,874	0,878	0,883	0,887	0,891	0,896	0,9	0,904	0,909
430	0,913	0,917	0,922	0,926	0,93	0,935	0,939	0,944	0,948	0,953
440	0,957	0,961	0,966	0,97	0,975	0,979	0,984	0,988	0,993	0,997
450	1,002	1,007	1,011	1,016	1,02	1,025	1,03	1,034	1,039	1,043
460	1,048	1,053	1,057	1,062	1,067	1,071	1,076	1,081	1,086	1,09
470	1,095	1,1	1,105	1,109	1,114	1,119	1,124	1,129	1,133	1,138
480	1,143	1,148	1,153	1,158	1,163	1,167	1,172	1,177	1,182	1,187
490	1,192	1,197	1,202	1,207	1,212	1,217	1,222	1,227	1,232	1,237
500	1,242	1,247	1,252	1,257	1,262	1,267	1,272	1,277	1,282	1,288
510	1,293	1,298	1,303	1,308	1,313	1,318	1,324	1,329	1,334	1,339
520	1,344	1,35	1,355	1,36	1,365	1,371	1,376	1,381	1,387	1,392
530	1,397	1,402	1,408	1,413	1,418	1,424	1,429	1,435	1,44	1,445
540	1,451	1,456	1,462	1,467	1,472	1,478	1,483	1,489	1,494	1,5
550	1,505	1,511	1,516	1,522	1,527	1,533	1,539	1,544	1,55	1,555
560	1,561	1,566	1,572	1,578	1,583	1,589	1,595	1,6	1,606	1,612
570	1,617	1,623	1,629	1,634	1,64	1,646	1,652	1,657	1,663	1,669
580	1,675	1,68	1,686	1,692	1,698	1,704	1,709	1,715	1,721	1,727
590	1,733	1,739	1,745	1,75	1,756	1,762	1,768	1,774	1,78	1,786
600	1,792	1,798	1,804	1,81	1,816	1,822	1,828	1,834	1,84	1,846
610	1,852	1,858	1,864	1,87	1,876	1,882	1,888	1,894	1,901	1,907
620	1,913	1,919	1,925	1,931	1,937	1,944	1,95	1,956	1,962	1,968
630	1,975	1,981	1,987	1,993	1,999	2,006	2,012	2,018	2,025	2,031
640	2,037	2,043	2,05	2,056	2,062	2,069	2,075	2,082	2,088	2,094
650	2,101	2,107	2,113	2,12	2,126	2,133	2,139	2,146	2,152	2,158
660	2,165	2,171	2,178	2,184	2,191	2,197	2,204	2,21	2,217	2,224
670	2,23	2,237	2,243	2,25	2,256	2,263	2,27	2,276	2,283	2,289
680	2,296	2,303	2,309	2,316	2,323	2,329	2,336	2,343	2,35	2,356
690	2,363	2,37	2,376	2,383	2,39	2,397	2,403	2,41	2,417	2,424
700	2,431	2,437	2,444	2,451	2,458	2,465	2,472	2,479	2,485	2,492
710	2,499	2,506	2,513	2,52	2,527	2,534	2,541	2,548	2,555	2,562
720	2,569	2,576	2,583	2,59	2,597	2,604	2,611	2,618	2,625	2,632
730	2,639	2,646	2,653	2,66	2,667	2,674	2,681	2,688	2,696	2,703
740	2,71	2,717	2,724	2,731	2,738	2,746	2,753	2,76	2,767	2,775
750	2,782	2,789	2,796	2,803	2,811	2,818	2,825	2,833	2,84	2,847
760	2,854	2,862	2,869	2,876	2,884	2,891	2,898	2,906	2,913	2,921
770	2,928	2,935	2,943	2,95	2,958	2,965	2,973	2,98	2,987	2,995
780	3,002	3,01	3,017	3,025	3,032	3,04	3,047	3,055	3,062	3,07
790	3,078	3,085	3,093	3,1	3,108	3,116	3,123	3,131	3,138	3,146
800	3,154	3,161	3,169	3,177	3,184	3,192	3,2	3,207	3,215	3,223
810	3,23	3,238	3,246	3,254	3,261	3,269	3,277	3,285	3,292	3,3







(continues)

°C	Thermoelectric Voltage [mV]									
	0	1	2	3	4	5	6	7	8	9
820	3,308	3,316	3,324	3,331	3,339	3,347	3,355	3,363	3,371	3,379
830	3,386	3,394	3,402	3,41	3,418	3,426	3,434	3,442	3,45	3,458
840	3,466	3,474	3,482	3,49	3,498	3,506	3,514	3,522	3,53	3,538
850	3,546	3,554	3,562	3,57	3,578	3,586	3,594	3,602	3,61	3,618
860	3,626	3,634	3,643	3,651	3,659	3,667	3,675	3,683	3,692	3,7
870	3,708	3,716	3,724	3,732	3,741	3,749	3,757	3,765	3,774	3,782
880	3,79	3,798	3,807	3,815	3,823	3,832	3,84	3,848	3,857	3,865
890	3,873	3,882	3,89	3,898	3,907	3,915	3,923	3,932	3,94	3,949
900	3,957	3,965	3,974	3,982	3,991	3,999	4,008	4,016	4,024	4,033
910	4,041	4,05	4,058	4,067	4,075	4,084	4,093	4,101	4,11	4,118
920	4,127	4,135	4,144	4,152	4,161	4,17	4,178	4,187	4,195	4,204
930	4,213	4,221	4,23	4,239	4,247	4,256	4,265	4,273	4,282	4,291
940	4,299	4,308	4,317	4,326	4,334	4,343	4,352	4,36	4,369	4,378
950	4,387	4,396	4,404	4,413	4,422	4,431	4,44	4,448	4,457	4,466
960	4,475	4,484	4,493	4,501	4,51	4,519	4,528	4,537	4,546	4,555
970	4,564	4,573	4,582	4,591	4,599	4,608	4,617	4,626	4,635	4,644
980	4,653	4,662	4,671	4,68	4,689	4,698	4,707	4,716	4,725	4,734
990	4,743	4,753	4,762	4,771	4,78	4,789	4,798	4,807	4,816	4,825
1000	4,834	4,843	4,853	4,862	4,871	4,88	4,889	4,898	4,908	4,917
1010	4,926	4,935	4,944	4,954	4,963	4,972	4,981	4,99	5	5,009
1020	5,018	5,027	5,037	5,046	5,055	5,065	5,074	5,083	5,092	5,102
1030	5,111	5,12	5,13	5,139	5,148	5,158	5,167	5,176	5,186	5,195
1040	5,205	5,214	5,223	5,233	5,242	5,252	5,261	5,27	5,28	5,289
1050	5,299	5,308	5,318	5,327	5,337	5,346	5,356	5,365	5,375	5,384
1060	5,394	5,403	5,413	5,422	5,432	5,441	5,451	5,46	5,47	5,48
1070	5,489	5,499	5,508	5,518	5,528	5,537	5,547	5,556	5,566	5,576
1080	5,585	5,595	5,605	5,614	5,624	5,634	5,643	5,653	5,663	5,672
1090	5,682	5,692	5,702	5,711	5,721	5,731	5,74	5,75	5,76	5,77
1100	5,78	5,789	5,799	5,809	5,819	5,828	5,838	5,848	5,858	5,868
1110	5,878	5,887	5,897	5,907	5,917	5,927	5,937	5,947	5,956	5,966
1120	5,976	5,986	5,996	6,006	6,016	6,026	6,036	6,046	6,055	6,065
1130	6,075	6,085	6,095	6,105	6,115	6,125	6,135	6,145	6,155	6,165
1140	6,175	6,185	6,195	6,205	6,215	6,225	6,235	6,245	6,256	6,266
1150	6,276	6,286	6,296	6,306	6,316	6,326	6,336	6,346	6,356	6,367
1160	6,377	6,387	6,397	6,407	6,417	6,427	6,438	6,448	6,458	6,468
1170	6,478	6,488	6,499	6,509	6,519	6,529	6,539	6,55	6,56	6,57
1180	6,58	6,591	6,601	6,611	6,621	6,632	6,642	6,652	6,663	6,673
1190	6,683	6,693	6,704	6,714	6,724	6,735	6,745	6,755	6,766	6,776
1200	6,786	6,797	6,807	6,818	6,828	6,838	6,849	6,859	6,869	6,88
1210	6,89	6,901	6,911	6,922	6,932	6,942	6,953	6,963	6,974	6,984
1220	6,995	7,005	7,016	7,026	7,037	7,047	7,058	7,068	7,079	7,089
1230	7,1	7,11	7,121	7,131	7,142	7,152	7,163	7,173	7,184	7,194
1240	7,205	7,216	7,226	7,237	7,247	7,258	7,269	7,279	7,29	7,3
1250	7,311	7,322	7,332	7,343	7,353	7,364	7,375	7,385	7,396	7,407
1260	7,417	7,428	7,439	7,449	7,46	7,471	7,482	7,492	7,503	7,514
1270	7,524	7,535	7,546	7,557	7,567	7,578	7,589	7,6	7,61	7,621
1280	7,632	7,643	7,653	7,664	7,675	7,686	7,697	7,707	7,718	7,729
1290	7,74	7,751	7,761	7,772	7,783	7,794	7,805	7,816	7,827	7,837
1300	7,848	7,859	7,87	7,881	7,892	7,903	7,914	7,924	7,935	7,946
1310	7,957	7,968	7,979	7,99	8,001	8,012	8,023	8,034	8,045	8,056



(continues)

°C	Thermoelectric Voltage [mV]									
	0	1	2	3	4	5	6	7	8	9
1320	8,066	8,077	8,088	8,099	8,11	8,121	8,132	8,143	8,154	8,165
1330	8,176	8,187	8,198	8,209	8,22	8,231	8,242	8,253	8,264	8,275
1340	8,286	8,298	8,309	8,32	8,331	8,342	8,353	8,364	8,375	8,386
1350	8,397	8,408	8,419	8,43	8,441	8,453	8,464	8,475	8,486	8,497
1360	8,508	8,519	8,53	8,542	8,553	8,564	8,575	8,586	8,597	8,608
1370	8,62	8,631	8,642	8,653	8,664	8,675	8,687	8,698	8,709	8,72
1380	8,731	8,743	8,754	8,765	8,776	8,787	8,799	8,81	8,821	8,832
1390	8,844	8,855	8,866	8,877	8,889	8,9	8,911	8,922	8,934	8,945
1400	8,956	8,967	8,979	8,99	9,001	9,013	9,024	9,035	9,047	9,058
1410	9,069	9,08	9,092	9,103	9,114	9,126	9,137	9,148	9,16	9,171
1420	9,182	9,194	9,205	9,216	9,228	9,239	9,251	9,262	9,273	9,285
1430	9,296	9,307	9,319	9,33	9,342	9,353	9,364	9,376	9,387	9,398
1440	9,41	9,421	9,433	9,444	9,456	9,467	9,478	9,49	9,501	9,513
1450	9,524	9,536	9,547	9,558	9,57	9,581	9,593	9,604	9,616	9,627
1460	9,639	9,65	9,662	9,673	9,684	9,696	9,707	9,719	9,73	9,742
1470	9,753	9,765	9,776	9,788	9,799	9,811	9,822	9,834	9,845	9,857
1480	9,868	9,88	9,891	9,903	9,914	9,926	9,937	9,949	9,961	9,972
1490	9,984	9,995	10,007	10,018	10,03	10,041	10,053	10,064	10,076	10,088
1500	10,099	10,111	10,122	10,134	10,145	10,157	10,168	10,18	10,192	10,203
1510	10,215	10,226	10,238	10,249	10,261	10,273	10,284	10,296	10,307	10,319
1520	10,331	10,342	10,354	10,365	10,377	10,389	10,4	10,412	10,423	10,435
1530	10,447	10,458	10,47	10,482	10,493	10,505	10,516	10,528	10,54	10,551
1540	10,563	10,575	10,586	10,598	10,609	10,621	10,633	10,644	10,656	10,668
1550	10,679	10,691	10,703	10,714	10,726	10,738	10,749	10,761	10,773	10,784
1560	10,796	10,808	10,819	10,831	10,843	10,854	10,866	10,877	10,889	10,901
1570	10,913	10,924	10,936	10,948	10,959	10,971	10,983	10,994	11,006	11,018
1580	11,029	11,041	11,053	11,064	11,076	11,088	11,099	11,111	11,123	11,134
1590	11,146	11,158	11,169	11,181	11,193	11,205	11,216	11,228	11,24	11,251
1600	11,263	11,275	11,286	11,298	11,31	11,321	11,333	11,345	11,357	11,368
1610	11,38	11,392	11,403	11,415	11,427	11,438	11,45	11,462	11,474	11,485
1620	11,497	11,509	11,52	11,532	11,544	11,555	11,567	11,579	11,591	11,602
1630	11,614	11,626	11,637	11,649	11,661	11,673	11,684	11,696	11,708	11,719
1640	11,731	11,743	11,754	11,766	11,778	11,79	11,801	11,813	11,825	11,836
1650	11,848	11,86	11,871	11,883	11,895	11,907	11,918	11,93	11,942	11,953
1660	11,965	11,977	11,988	12	12,012	12,024	12,035	12,047	12,059	12,07
1670	12,082	12,094	12,105	12,117	12,129	12,141	12,152	12,164	12,176	12,187
1680	12,199	12,211	12,222	12,234	12,246	12,257	12,269	12,281	12,292	12,304
1690	12,316	12,327	12,339	12,351	12,363	12,374	12,386	12,398	12,409	12,421
1700	12,433	12,444	12,456	12,468	12,479	12,491	12,503	12,514	12,526	12,538
1710	12,549	12,561	12,572	12,584	12,596	12,607	12,619	12,631	12,642	12,654
1720	12,666	12,677	12,689	12,701	12,712	12,724	12,736	12,747	12,759	12,77
1730	12,782	12,794	12,805	12,817	12,829	12,84	12,852	12,863	12,875	12,887
1740	12,898	12,91	12,921	12,933	12,945	12,956	12,968	12,98	12,991	13,003
1750	13,014	13,026	13,037	13,049	13,061	13,072	13,084	13,095	13,107	13,119
1760	13,13	13,142	13,153	13,165	13,176	13,188	13,2	13,211	13,223	13,234
1770	13,246	13,257	13,269	13,28	13,292	13,304	13,315	13,327	13,338	13,35
1780	13,361	13,373	13,384	13,396	13,407	13,419	13,43	13,442	13,453	13,465
1790	13,476	13,488	13,499	13,511	13,522	13,534	13,545	13,557	13,568	13,58
1800	13,591	13,603	13,614	13,626	13,637	13,649	13,66	13,672	13,683	13,694
1810	13,706	13,717	13,729	13,74	13,752	13,763	13,775	13,786	13,797	13,809
1820	13,82									

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