

| Thermocouple Type | Type T ITS90 | Type E ITS90 | Type J ITS90 | Type K ITS90 | Type N ITS90 | Type S ITS90 | Type R ITS90 | Type B ITS90 |
|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Temperature in °C | µV | µV | µV | µV | µV | µV | µV | µV |
| -200 | -5603 | -8825 | -7890 | -5891 | -3990 | | | |
| -150 | -4648 | -7279 | -6500 | -4913 | -3336 | | | |
| -100 | -3379 | -5237 | -4633 | -3554 | -2407 | | | |
| -50 | -1819 | -2787 | -2431 | -1889 | -1269 | -236 | -226 | |
| -40 | -1475 | -2255 | -1961 | -1527 | -1023 | -194 | -188 | |
| -30 | -1121 | -1709 | -1482 | -1156 | -772 | -150 | -145 | |
| -20 | -757 | -1152 | -995 | -778 | -518 | -103 | -100 | |
| -10 | -383 | -582 | -501 | -392 | -260 | -53 | -51 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 391 | 591 | 507 | 397 | 261 | 55 | 54 | -2 |
| 20 | 790 | 1192 | 1019 | 798 | 525 | 113 | 111 | -3 |
| 30 | 1196 | 1801 | 1537 | 1203 | 793 | 173 | 171 | -2 |
| 40 | 1612 | 2420 | 2059 | 1612 | 1065 | 235 | 232 | 0 |
| 50 | 2036 | 3048 | 2585 | 2023 | 1340 | 299 | 296 | 2 |
| 60 | 2468 | 3685 | 3116 | 2436 | 1619 | 365 | 363 | 6 |
| 70 | 2909 | 4330 | 3650 | 2851 | 1902 | 433 | 431 | 11 |
| 80 | 3358 | 4985 | 4187 | 3267 | 2189 | 502 | 501 | 17 |
| 90 | 3814 | 5648 | 4726 | 3682 | 2480 | 573 | 573 | 25 |
| 100 | 4279 | 6319 | 5269 | 4096 | 2774 | 646 | 647 | 33 |
| 110 | 4750 | 6998 | 5814 | 4509 | 3072 | 720 | 723 | 43 |
| 120 | 5228 | 7685 | 6360 | 4920 | 3374 | 795 | 800 | 53 |
| 130 | 5714 | 8379 | 6909 | 5328 | 3680 | 872 | 879 | 65 |
| 140 | 6206 | 9081 | 7459 | 5735 | 3989 | 950 | 959 | 78 |
| 150 | 6704 | 9789 | 8010 | 6138 | 4302 | 1029 | 1041 | 92 |
| 160 | 7209 | 10503 | 8562 | 6540 | 4618 | 1110 | 1124 | 107 |
| 170 | 7720 | 11224 | 9115 | 6941 | 4937 | 1191 | 1208 | 123 |
| 180 | 8237 | 11951 | 9669 | 7340 | 5259 | 1273 | 1294 | 141 |
| 190 | 8759 | 12684 | 10224 | 7739 | 5585 | 1357 | 1381 | 159 |
| 200 | 9288 | 13421 | 10779 | 8138 | 5913 | 1441 | 1469 | 178 |
| 210 | 9822 | 14164 | 11334 | 8539 | 6245 | 1526 | 1558 | 199 |
| 220 | 10362 | 14912 | 11889 | 8940 | 6579 | 1612 | 1648 | 220 |
| 230 | 10907 | 15664 | 12445 | 9343 | 6916 | 1698 | 1739 | 243 |
| 240 | 11458 | 16420 | 13000 | 9747 | 7255 | 1786 | 1831 | 267 |
| 250 | 12013 | 17181 | 13555 | 10153 | 7597 | 1874 | 1923 | 291 |
| 260 | 12574 | 17945 | 14110 | 10561 | 7941 | 1962 | 2017 | 317 |
| 270 | 13139 | 18713 | 14665 | 10971 | 8288 | 2052 | 2112 | 344 |
| 280 | 13709 | 19484 | 15219 | 11382 | 8637 | 2141 | 2207 | 372 |
| 290 | 14283 | 20259 | 15773 | 11795 | 8988 | 2232 | 2304 | 401 |
| 300 | 14862 | 21036 | 16327 | 12209 | 9341 | 2323 | 2401 | 431 |
| 310 | 15445 | 21817 | 16881 | 12624 | 9696 | 2415 | 2498 | 462 |
| 320 | 16032 | 22600 | 17434 | 13040 | 10054 | 2507 | 2597 | 494 |
| 330 | 16624 | 23386 | 17986 | 13457 | 10413 | 2599 | 2696 | 527 |
| 340 | 17219 | 24174 | 18538 | 13874 | 10774 | 2692 | 2796 | 561 |
| 350 | 17819 | 24964 | 19090 | 14293 | 11136 | 2786 | 2896 | 596 |
| 360 | 18422 | 25757 | 19642 | 14713 | 11501 | 2880 | 2997 | 632 |
| 370 | 19030 | 26552 | 20194 | 15133 | 11867 | 2974 | 3099 | 669 |
| 380 | 19641 | 27348 | 20745 | 15554 | 12234 | 3069 | 3201 | 707 |
| 390 | 20255 | 28146 | 21297 | 15975 | 12603 | 3164 | 3304 | 746 |
| 400 | 20872 | 28946 | 21848 | 16397 | 12974 | 3259 | 3408 | 787 |
| 410 | | 29747 | 22400 | 16820 | 13346 | 3355 | 3512 | 828 |
| 420 | | 30550 | 22952 | 17243 | 13719 | 3451 | 3616 | 870 |
| 430 | | 31354 | 23504 | 17667 | 14094 | 3548 | 3721 | 913 |
| 440 | | 32159 | 24057 | 18091 | 14469 | 3645 | 3827 | 957 |
| 450 | | 32965 | 24610 | 18516 | 14846 | 3742 | 3933 | 1002 |
| 460 | | 33772 | 25164 | 18941 | 15225 | 3840 | 4040 | 1048 |
| 470 | | 34579 | 25720 | 19366 | 15604 | 3938 | 4147 | 1095 |
| 480 | | 35387 | 26276 | 19792 | 15984 | 4036 | 4255 | 1143 |
| 490 | | 36196 | 26834 | 20218 | 16366 | 4134 | 4363 | 1192 |
| 500 | | 37005 | 27393 | 20644 | 16748 | 4233 | 4471 | 1242 |

| Thermocouple Type | Type T ITS90 | Type E ITS90 | Type J ITS90 | Type K ITS90 | Type N ITS90 | Type S ITS90 | Type R ITS90 | Type B ITS90 |
|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Temperature in °C | µV | µV | µV | µV | µV | µV | µV | µV |
| 510 | | 37815 | 27953 | 21071 | 17131 | 4332 | 4580 | 1293 |
| 520 | | 38624 | 28516 | 21497 | 17515 | 4432 | 4690 | 1344 |
| 530 | | 39434 | 29080 | 21924 | 17900 | 4532 | 4800 | 1397 |
| 540 | | 40243 | 29647 | 22350 | 18286 | 4632 | 4910 | 1451 |
| 550 | | 41053 | 30216 | 22776 | 18672 | 4732 | 5021 | 1505 |
| 560 | | 41862 | 30788 | 23203 | 19059 | 4833 | 5133 | 1561 |
| 570 | | 42671 | 31362 | 23629 | 19447 | 4934 | 5245 | 1617 |
| 580 | | 43479 | 31939 | 24055 | 19835 | 5035 | 5357 | 1675 |
| 590 | | 44286 | 32519 | 24480 | 20224 | 5137 | 5470 | 1733 |
| 600 | | 45093 | 33102 | 24905 | 20613 | 5239 | 5583 | 1792 |
| 610 | | 45900 | 33689 | 25330 | 21003 | 5341 | 5697 | 1852 |
| 620 | | 46705 | 34279 | 25755 | 21393 | 5443 | 5812 | 1913 |
| 630 | | 47509 | 34873 | 26179 | 21784 | 5546 | 5926 | 1975 |
| 640 | | 48313 | 35470 | 26602 | 22175 | 5649 | 6041 | 2037 |
| 650 | | 49116 | 36071 | 27025 | 22566 | 5753 | 6157 | 2101 |
| 660 | | 49917 | 36675 | 27447 | 22958 | 5857 | 6273 | 2165 |
| 670 | | 50718 | 37284 | 27869 | 23350 | 5961 | 6390 | 2230 |
| 680 | | 51517 | 37896 | 28289 | 23742 | 6065 | 6507 | 2296 |
| 690 | | 52315 | 38512 | 28710 | 24134 | 6170 | 6625 | 2363 |
| 700 | | 53112 | 39132 | 29129 | 24527 | 6275 | 6743 | 2431 |
| 710 | | 53908 | 39755 | 29548 | 24919 | 6381 | 6861 | 2499 |
| 720 | | 54703 | 40382 | 29965 | 25312 | 6486 | 6980 | 2569 |
| 730 | | 55497 | 41012 | 30382 | 25705 | 6593 | 7100 | 2639 |
| 740 | | 56289 | 41645 | 30798 | 26098 | 6699 | 7220 | 2710 |
| 750 | | 57080 | 42281 | 31213 | 26491 | 6806 | 7340 | 2782 |
| 760 | | 57870 | 42919 | 31628 | 26883 | 6913 | 7461 | 2854 |
| 770 | | 58659 | 43559 | 32041 | 27276 | 7020 | 7583 | 2928 |
| 780 | | 59446 | 44203 | 32453 | 27669 | 7128 | 7705 | 3002 |
| 790 | | 60232 | 44848 | 32865 | 28062 | 7236 | 7827 | 3078 |
| 800 | | 61017 | 45494 | 33275 | 28455 | 7345 | 7950 | 3154 |
| 810 | | 61801 | 46141 | 33685 | 28847 | 7454 | 8073 | 3230 |
| 820 | | 62583 | 46786 | 34093 | 29239 | 7563 | 8197 | 3308 |
| 830 | | 63364 | 47431 | 34501 | 29632 | 7673 | 8321 | 3386 |
| 840 | | 64144 | 48074 | 34908 | 30024 | 7783 | 8446 | 3466 |
| 850 | | 64922 | 48715 | 35313 | 30416 | 7893 | 8571 | 3546 |
| 860 | | 65698 | 49353 | 35718 | 30807 | 8003 | 8697 | 3626 |
| 870 | | 66473 | 49989 | 36121 | 31199 | 8114 | 8823 | 3708 |
| 880 | | | 50622 | 36524 | 31590 | 8226 | 8950 | 3790 |
| 890 | | | 51251 | 36925 | 31981 | 8337 | 9077 | 3873 |
| 900 | | | 51877 | 37326 | 32371 | 8449 | 9205 | 3957 |
| 910 | | | 52500 | 37725 | 32761 | 8562 | 9333 | 4041 |
| 920 | | | 53119 | 38124 | 33151 | 8674 | 9461 | 4127 |
| 930 | | | 53735 | 38522 | 33541 | 8787 | 9590 | 4213 |
| 940 | | | 54347 | 38918 | 33930 | 8900 | 9720 | 4299 |
| 950 | | | 54956 | 39314 | 34319 | 9014 | 9850 | 4387 |
| 960 | | | 55561 | 39708 | 34707 | 9128 | 9980 | 4475 |
| 970 | | | 56164 | 40101 | 35095 | 9242 | 10111 | 4564 |
| 980 | | | 56763 | 40494 | 35482 | 9357 | 10242 | 4653 |
| 990 | | | 57360 | 40885 | 35869 | 9472 | 10374 | 4743 |
| 1000 | | | 57953 | 41276 | 36256 | 9587 | 10506 | 4834 |
| 1010 | | | 58545 | 41665 | 36641 | 9703 | 10638 | 4926 |
| 1020 | | | 59134 | 42053 | 37027 | 9819 | 10771 | 5018 |
| 1030 | | | 59721 | 42440 | 37411 | 9935 | 10905 | 5111 |
| 1040 | | | 60307 | 42826 | 37795 | 10051 | 11039 | 5205 |
| 1050 | | | 60890 | 43211 | 38179 | 10168 | 11173 | 5299 |
| 1060 | | | 61473 | 43595 | 38562 | 10285 | 11307 | 5394 |
| 1070 | | | 62054 | 43978 | 38944 | 10403 | 11442 | 5489 |
| 1080 | | | 62634 | 44359 | 39326 | 10520 | 11578 | 5585 |
| 1090 | | | 63214 | 44740 | 39706 | 10638 | 11714 | 5682 |
| 1100 | | | 63792 | 45119 | 40087 | 10757 | 11850 | 5780 |
| 1110 | | | 64370 | 45497 | 40466 | 10875 | 11986 | 5878 |
| 1120 | | | 64948 | 45873 | 40845 | 10994 | 12123 | 5976 |
| 1130 | | | 65525 | 46249 | 41223 | 11113 | 12260 | 6075 |
| 1140 | | | 66102 | 46623 | 41600 | 11232 | 12397 | 6175 |
| 1150 | | | 66679 | 46995 | 41976 | 11351 | 12535 | 6276 |



| Thermocouple Type | Type T ITS90 | Type E ITS90 | Type J ITS90 | Type K ITS90 | Type N ITS90 | Type S ITS90 | Type R ITS90 | Type B ITS90 |
|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Temperature in °C | µV | µV | µV | µV | µV | µV | µV | µV |
| 1160 | | | 67255 | 47367 | 42352 | 11471 | 12673 | 6377 |
| 1170 | | | 67831 | 47737 | 42727 | 11590 | 12812 | 6478 |
| 1180 | | | 68406 | 48105 | 43101 | 11710 | 12950 | 6580 |
| 1190 | | | 68980 | 48473 | 43474 | 11830 | 13089 | 6683 |
| 1200 | | | 69553 | 48838 | 43846 | 11951 | 13228 | 6786 |
| 1210 | | | | 49202 | 44218 | 12071 | 13367 | 6890 |
| 1220 | | | | 49565 | 44588 | 12191 | 13507 | 6995 |
| 1230 | | | | 49926 | 44958 | 12312 | 13646 | 7100 |
| 1240 | | | | 50286 | 45326 | 12433 | 13786 | 7205 |
| 1250 | | | | 50644 | 45694 | 12554 | 13926 | 7311 |
| 1260 | | | | 51000 | 46060 | 12675 | 14066 | 7417 |
| 1270 | | | | 51355 | 46425 | 12796 | 14207 | 7524 |
| 1280 | | | | 51708 | 46789 | 12917 | 14347 | 7632 |
| 1290 | | | | 52060 | 47152 | 13038 | 14488 | 7740 |
| 1300 | | | | 52410 | 47513 | 13159 | 14629 | 7848 |
| 1310 | | | | 52759 | | 13280 | 14770 | 7957 |
| 1320 | | | | 53106 | | 13402 | 14911 | 8066 |
| 1330 | | | | 53451 | | 13523 | 15052 | 8176 |
| 1340 | | | | 53795 | | 13644 | 15193 | 8286 |
| 1350 | | | | 54138 | | 13766 | 15334 | 8397 |
| 1360 | | | | 54479 | | 13887 | 15475 | 8508 |
| 1370 | | | | 54819 | | 14009 | 15616 | 8620 |
| 1380 | | | | | | 14130 | 15758 | 8731 |
| 1390 | | | | | | 14251 | 15899 | 8844 |
| 1400 | | | | | | 14373 | 16040 | 8956 |
| 1410 | | | | | | 14494 | 16181 | 9069 |
| 1420 | | | | | | 14615 | 16323 | 9182 |
| 1430 | | | | | | 14736 | 16464 | 9296 |
| 1440 | | | | | | 14857 | 16605 | 9410 |
| 1450 | | | | | | 14978 | 16746 | 9524 |
| 1460 | | | | | | 15099 | 16887 | 9639 |
| 1470 | | | | | | 15220 | 17028 | 9753 |
| 1480 | | | | | | 15341 | 17169 | 9868 |
| 1490 | | | | | | 15461 | 17310 | 9984 |
| 1500 | | | | | | 15582 | 17451 | 10099 |
| 1510 | | | | | | 15702 | 17591 | 10215 |
| 1520 | | | | | | 15822 | 17732 | 10331 |
| 1530 | | | | | | 15942 | 17872 | 10447 |
| 1540 | | | | | | 16062 | 18012 | 10563 |
| 1550 | | | | | | 16182 | 18152 | 10679 |
| 1560 | | | | | | 16301 | 18292 | 10796 |
| 1570 | | | | | | 16420 | 18431 | 10913 |
| 1580 | | | | | | 16539 | 18571 | 11029 |
| 1590 | | | | | | 16658 | 18710 | 11146 |
| 1600 | | | | | | 16777 | 18849 | 11263 |
| 1610 | | | | | | 16895 | 18988 | 11380 |
| 1620 | | | | | | 17013 | 19126 | 11497 |
| 1630 | | | | | | 17131 | 19264 | 11614 |
| 1640 | | | | | | 17249 | 19402 | 11731 |
| 1650 | | | | | | 17366 | 19540 | 11848 |
| 1660 | | | | | | 17483 | 19677 | 11965 |
| 1670 | | | | | | 17600 | 19814 | 12082 |
| 1680 | | | | | | 17717 | 19951 | 12199 |
| 1690 | | | | | | 17832 | 20087 | 12316 |
| 1700 | | | | | | 17947 | 20222 | 12433 |
| 1710 | | | | | | 18061 | 20356 | 12549 |
| 1720 | | | | | | 18174 | 20488 | 12666 |
| 1730 | | | | | | 18285 | 20620 | 12782 |
| 1740 | | | | | | 18395 | 20749 | 12898 |
| 1750 | | | | | | 18503 | 20877 | 13014 |
| 1760 | | | | | | 18609 | 21003 | 13130 |
| 1770 | | | | | | | | 13246 |
| 1780 | | | | | | | | 13361 |
| 1790 | | | | | | | | 13476 |
| 1800 | | | | | | | | 13591 |

