



## Temperature Vs. Voltage

Type K Thermocouple

Values are in millivolts

| Temp °F | -0       | -1       | -2       | -3       | -4       | -5       | -6       | -7       | -8       | -9       |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| -450    | -6.45568 | -6.45627 | -6.45682 | -6.45730 | -6.45774 |          |          |          |          |          |
| -440    | -6.44649 | -6.44769 | -6.44882 | -6.44988 | -6.45089 | -6.45183 | -6.45272 | -6.45355 | -6.45431 | -6.45502 |
| -430    | -6.43103 | -6.43287 | -6.43465 | -6.43636 | -6.43800 | -6.43958 | -6.44109 | -6.44254 | -6.44392 | -6.44524 |
| -420    | -6.40886 | -6.41139 | -6.41384 | -6.41623 | -6.41855 | -6.42080 | -6.42298 | -6.42509 | -6.42714 | -6.42912 |
| -410    | -6.37981 | -6.38303 | -6.38618 | -6.38925 | -6.39226 | -6.39520 | -6.39807 | -6.40087 | -6.40361 | -6.40627 |
| -400    | -6.34383 | -6.34774 | -6.35158 | -6.35535 | -6.35905 | -6.36268 | -6.36625 | -6.36974 | -6.37317 | -6.37652 |
| -390    | -6.30098 | -6.30557 | -6.31009 | -6.31455 | -6.31894 | -6.32326 | -6.32751 | -6.33169 | -6.33580 | -6.33985 |
| -380    | -6.25139 | -6.25665 | -6.26184 | -6.26696 | -6.27202 | -6.27702 | -6.28194 | -6.28680 | -6.29160 | -6.29632 |
| -370    | -6.19521 | -6.20112 | -6.20697 | -6.21275 | -6.21846 | -6.22411 | -6.22970 | -6.23522 | -6.24067 | -6.24606 |
| -360    | -6.13264 | -6.13918 | -6.14566 | -6.15207 | -6.15842 | -6.16471 | -6.17094 | -6.17710 | -6.18320 | -6.18924 |
| -350    | -6.06383 | -6.07099 | -6.07808 | -6.08512 | -6.09209 | -6.09900 | -6.10585 | -6.11264 | -6.11937 | -6.12603 |
| -340    | -5.98898 | -5.99673 | -6.00443 | -6.01206 | -6.01964 | -6.02715 | -6.03461 | -6.04200 | -6.04934 | -6.05662 |
| -330    | -5.90824 | -5.91658 | -5.92485 | -5.93307 | -5.94123 | -5.94934 | -5.95738 | -5.96537 | -5.97330 | -5.98117 |
| -320    | -5.82178 | -5.83068 | -5.83952 | -5.84831 | -5.85704 | -5.86572 | -5.87434 | -5.88290 | -5.89140 | -5.89985 |
| -310    | -5.72972 | -5.73917 | -5.74857 | -5.75792 | -5.76720 | -5.77644 | -5.78562 | -5.79474 | -5.80381 | -5.81282 |
| -300    | -5.63221 | -5.64220 | -5.65214 | -5.66203 | -5.67186 | -5.68164 | -5.69136 | -5.70103 | -5.71065 | -5.72021 |
| -290    | -5.52936 | -5.53988 | -5.55035 | -5.56076 | -5.57113 | -5.58144 | -5.59170 | -5.60191 | -5.61206 | -5.62216 |
| -280    | -5.42128 | -5.43232 | -5.44331 | -5.45425 | -5.46513 | -5.47596 | -5.48675 | -5.49748 | -5.50815 | -5.51878 |
| -270    | -5.30809 | -5.31964 | -5.33114 | -5.34258 | -5.35398 | -5.36532 | -5.37661 | -5.38786 | -5.39905 | -5.41019 |
| -260    | -5.18989 | -5.20194 | -5.21393 | -5.22587 | -5.23777 | -5.24961 | -5.26141 | -5.27315 | -5.28485 | -5.29650 |
| -250    | -5.06678 | -5.07931 | -5.09179 | -5.10423 | -5.11661 | -5.12895 | -5.14123 | -5.15347 | -5.16566 | -5.17780 |
| -240    | -4.93886 | -4.95187 | -4.96483 | -4.97774 | -4.99060 | -5.00342 | -5.01619 | -5.02891 | -5.04158 | -5.05421 |
| -230    | -4.80623 | -4.81970 | -4.83313 | -4.84651 | -4.85984 | -4.87313 | -4.88637 | -4.89956 | -4.91271 | -4.92581 |
| -220    | -4.66898 | -4.68291 | -4.69679 | -4.71063 | -4.72442 | -4.73817 | -4.75188 | -4.76553 | -4.77914 | -4.79271 |
| -210    | -4.52721 | -4.54159 | -4.55592 | -4.57021 | -4.58446 | -4.59865 | -4.61281 | -4.62692 | -4.64098 | -4.65500 |
| -200    | -4.38103 | -4.39585 | -4.41062 | -4.42535 | -4.44003 | -4.45467 | -4.46927 | -4.48382 | -4.49833 | -4.51279 |
| -190    | -4.23054 | -4.24578 | -4.26098 | -4.27613 | -4.29125 | -4.30632 | -4.32135 | -4.33633 | -4.35128 | -4.36618 |
| -180    | -4.07583 | -4.09149 | -4.10710 | -4.12268 | -4.13821 | -4.15370 | -4.16915 | -4.18456 | -4.19993 | -4.21526 |
| -170    | -3.91701 | -3.93307 | -3.94909 | -3.96508 | -3.98102 | -3.99692 | -4.01279 | -4.02861 | -4.04439 | -4.06013 |
| -160    | -3.75417 | -3.77063 | -3.78706 | -3.80344 | -3.81978 | -3.83608 | -3.85235 | -3.86857 | -3.88476 | -3.90090 |
| -150    | -3.58744 | -3.60428 | -3.62109 | -3.63786 | -3.65459 | -3.67129 | -3.68794 | -3.70456 | -3.72114 | -3.73767 |
| -140    | -3.41690 | -3.43412 | -3.45131 | -3.46846 | -3.48557 | -3.50264 | -3.51967 | -3.53667 | -3.55363 | -3.57055 |
| -130    | -3.24268 | -3.26026 | -3.27781 | -3.29533 | -3.31281 | -3.33025 | -3.34765 | -3.36502 | -3.38235 | -3.39965 |
| -120    | -3.06487 | -3.08281 | -3.10072 | -3.11859 | -3.13642 | -3.15422 | -3.17198 | -3.18971 | -3.20740 | -3.22506 |



## Temperature Vs. Voltage

Type K Thermocouple

Values are in millivolts

| Temp °F | -0       | -1       | -2       | -3       | -4       | -5       | -6       | -7       | -8       | -9       |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| -110    | -2.88360 | -2.90188 | -2.92013 | -2.93834 | -2.95652 | -2.97466 | -2.99277 | -3.01085 | -3.02889 | -3.04690 |
| -100    | -2.69897 | -2.71758 | -2.73616 | -2.75470 | -2.77321 | -2.79169 | -2.81014 | -2.82856 | -2.84694 | -2.86528 |
| -90     | -2.51109 | -2.53002 | -2.54892 | -2.56778 | -2.58662 | -2.60542 | -2.62420 | -2.64294 | -2.66165 | -2.68032 |
| -80     | -2.32008 | -2.33932 | -2.35852 | -2.37770 | -2.39685 | -2.41597 | -2.43505 | -2.45411 | -2.47313 | -2.49213 |
| -70     | -2.12605 | -2.14558 | -2.16509 | -2.18457 | -2.20401 | -2.22343 | -2.24282 | -2.26218 | -2.28151 | -2.30081 |
| -60     | -1.92911 | -1.94893 | -1.96872 | -1.98849 | -2.00823 | -2.02794 | -2.04762 | -2.06727 | -2.08689 | -2.10648 |
| -50     | -1.72937 | -1.74947 | -1.76954 | -1.78958 | -1.80960 | -1.82959 | -1.84955 | -1.86948 | -1.88938 | -1.90926 |
| -40     | -1.52695 | -1.54731 | -1.56764 | -1.58795 | -1.60823 | -1.62849 | -1.64872 | -1.66892 | -1.68910 | -1.70925 |
| -30     | -1.32193 | -1.34255 | -1.36314 | -1.38370 | -1.40424 | -1.42476 | -1.44525 | -1.46571 | -1.48615 | -1.50656 |
| -20     | -1.11444 | -1.13530 | -1.15613 | -1.17694 | -1.19773 | -1.21849 | -1.23923 | -1.25994 | -1.28063 | -1.30129 |
| -10     | -0.90456 | -0.92565 | -0.94672 | -0.96777 | -0.98879 | -1.00979 | -1.03077 | -1.05172 | -1.07265 | -1.09356 |
| - 0     | -0.69242 | -0.71373 | -0.73502 | -0.75629 | -0.77754 | -0.79877 | -0.81997 | -0.84115 | -0.86231 | -0.88345 |

| Temp °F | +0       | +1       | +2       | +3       | +4       | +5       | +6       | +7       | +8       | +9       |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0       | -0.69242 | -0.67108 | -0.64973 | -0.62835 | -0.60695 | -0.58554 | -0.56410 | -0.54264 | -0.52116 | -0.49965 |
| 10      | -0.47813 | -0.45659 | -0.43503 | -0.41345 | -0.39185 | -0.37024 | -0.34860 | -0.32694 | -0.30527 | -0.28357 |
| 20      | -0.26186 | -0.24013 | -0.21839 | -0.19662 | -0.17484 | -0.15304 | -0.13123 | -0.10939 | -0.08755 | -0.06568 |
| 30      | -0.04380 | -0.02191 | 0.00000  | 0.02192  | 0.04386  | 0.06582  | 0.08779  | 0.10977  | 0.13177  | 0.15378  |
| 40      | 0.17581  | 0.19785  | 0.21991  | 0.24198  | 0.26406  | 0.28616  | 0.30827  | 0.33040  | 0.35254  | 0.37469  |
| 50      | 0.39686  | 0.41904  | 0.44124  | 0.46345  | 0.48567  | 0.50790  | 0.53015  | 0.55241  | 0.57469  | 0.59697  |
| 60      | 0.61927  | 0.64158  | 0.66391  | 0.68625  | 0.70860  | 0.73096  | 0.75333  | 0.77572  | 0.79812  | 0.82053  |
| 70      | 0.84295  | 0.86539  | 0.88784  | 0.91029  | 0.93276  | 0.95525  | 0.97774  | 1.00024  | 1.02276  | 1.04528  |
| 80      | 1.06782  | 1.09037  | 1.11293  | 1.13550  | 1.15808  | 1.18067  | 1.20327  | 1.22589  | 1.24851  | 1.27114  |
| 90      | 1.29379  | 1.31644  | 1.33910  | 1.36177  | 1.38446  | 1.40715  | 1.42985  | 1.45256  | 1.47528  | 1.49801  |
| 100     | 1.52075  | 1.54350  | 1.56625  | 1.58902  | 1.61179  | 1.63457  | 1.65737  | 1.68016  | 1.70297  | 1.72579  |
| 110     | 1.74861  | 1.77144  | 1.79428  | 1.81713  | 1.83998  | 1.86284  | 1.88571  | 1.90859  | 1.93147  | 1.95437  |
| 120     | 1.97726  | 2.00017  | 2.02308  | 2.04600  | 2.06892  | 2.09185  | 2.11479  | 2.13773  | 2.16068  | 2.18363  |
| 130     | 2.20659  | 2.22956  | 2.25253  | 2.27550  | 2.29848  | 2.32147  | 2.34446  | 2.36746  | 2.39046  | 2.41346  |
| 140     | 2.43647  | 2.45949  | 2.48250  | 2.50553  | 2.52855  | 2.55158  | 2.57461  | 2.59765  | 2.62069  | 2.64373  |
| 150     | 2.66678  | 2.68983  | 2.71288  | 2.73594  | 2.75900  | 2.78206  | 2.80512  | 2.82818  | 2.85125  | 2.87432  |
| 160     | 2.89739  | 2.92046  | 2.94353  | 2.96661  | 2.98968  | 3.01276  | 3.03584  | 3.05892  | 3.08200  | 3.10508  |
| 170     | 3.12816  | 3.15124  | 3.17432  | 3.19740  | 3.22048  | 3.24356  | 3.26664  | 3.28972  | 3.31280  | 3.33588  |
| 180     | 3.35896  | 3.38203  | 3.40511  | 3.42818  | 3.45126  | 3.47433  | 3.49740  | 3.52046  | 3.54353  | 3.56659  |



## Temperature Vs. Voltage

Type K Thermocouple

Values are in millivolts

| Temp °F | +0      | +1      | +2      | +3      | +4      | +5      | +6      | +7      | +8      | +9      |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 190     | 3.58966 | 3.61272 | 3.63577 | 3.65883 | 3.68188 | 3.70493 | 3.72797 | 3.75102 | 3.77406 | 3.79709 |
| 200     | 3.82013 | 3.84316 | 3.86619 | 3.88921 | 3.91223 | 3.93524 | 3.95825 | 3.98126 | 4.00426 | 4.02726 |
| 210     | 4.05026 | 4.07325 | 4.09623 | 4.11921 | 4.14219 | 4.16516 | 4.18812 | 4.21108 | 4.23404 | 4.25699 |
| 220     | 4.27993 | 4.30287 | 4.32580 | 4.34873 | 4.37165 | 4.39457 | 4.41748 | 4.44038 | 4.46328 | 4.48617 |
| 230     | 4.50906 | 4.53194 | 4.55481 | 4.57768 | 4.60054 | 4.62340 | 4.64624 | 4.66908 | 4.69192 | 4.71475 |
| 240     | 4.73757 | 4.76038 | 4.78319 | 4.80599 | 4.82878 | 4.85157 | 4.87435 | 4.89712 | 4.91988 | 4.94264 |
| 250     | 4.96539 | 4.98813 | 5.01087 | 5.03360 | 5.05632 | 5.07903 | 5.10174 | 5.12444 | 5.14713 | 5.16981 |
| 260     | 5.19249 | 5.21516 | 5.23782 | 5.26048 | 5.28312 | 5.30576 | 5.32839 | 5.35102 | 5.37364 | 5.39625 |
| 270     | 5.41885 | 5.44144 | 5.46403 | 5.48661 | 5.50918 | 5.53175 | 5.55431 | 5.57686 | 5.59940 | 5.62194 |
| 280     | 5.64447 | 5.66699 | 5.68950 | 5.71201 | 5.73451 | 5.75700 | 5.77949 | 5.80197 | 5.82444 | 5.84690 |
| 290     | 5.86936 | 5.89181 | 5.91426 | 5.93670 | 5.95913 | 5.98155 | 6.00397 | 6.02638 | 6.04879 | 6.07118 |
| 300     | 6.09358 | 6.11596 | 6.13834 | 6.16072 | 6.18309 | 6.20545 | 6.22780 | 6.25015 | 6.27250 | 6.29484 |
| 310     | 6.31717 | 6.33950 | 6.36182 | 6.38414 | 6.40645 | 6.42876 | 6.45106 | 6.47336 | 6.49565 | 6.51793 |
| 320     | 6.54022 | 6.56249 | 6.58477 | 6.60703 | 6.62930 | 6.65156 | 6.67381 | 6.69606 | 6.71831 | 6.74056 |
| 330     | 6.76280 | 6.78503 | 6.80726 | 6.82949 | 6.85172 | 6.87394 | 6.89616 | 6.91837 | 6.94059 | 6.96280 |
| 340     | 6.98500 | 7.00721 | 7.02941 | 7.05161 | 7.07381 | 7.09600 | 7.11819 | 7.14039 | 7.16257 | 7.18476 |
| 350     | 7.20695 | 7.22913 | 7.25131 | 7.27349 | 7.29567 | 7.31785 | 7.34002 | 7.36220 | 7.38437 | 7.40655 |
| 360     | 7.42872 | 7.45089 | 7.47306 | 7.49524 | 7.51741 | 7.53958 | 7.56175 | 7.58392 | 7.60609 | 7.62826 |
| 370     | 7.65043 | 7.67260 | 7.69478 | 7.71695 | 7.73912 | 7.76130 | 7.78347 | 7.80565 | 7.82783 | 7.85001 |
| 380     | 7.87219 | 7.89437 | 7.91655 | 7.93873 | 7.96092 | 7.98311 | 8.00530 | 8.02749 | 8.04968 | 8.07187 |
| 390     | 8.09407 | 8.11627 | 8.13847 | 8.16068 | 8.18288 | 8.20509 | 8.22731 | 8.24952 | 8.27174 | 8.29396 |
| 400     | 8.31618 | 8.33841 | 8.36064 | 8.38287 | 8.40510 | 8.42734 | 8.44959 | 8.47183 | 8.49408 | 8.51633 |
| 410     | 8.53859 | 8.56085 | 8.58311 | 8.60538 | 8.62765 | 8.64993 | 8.67221 | 8.69449 | 8.71678 | 8.73907 |
| 420     | 8.76137 | 8.78367 | 8.80597 | 8.82828 | 8.85059 | 8.87291 | 8.89523 | 8.91756 | 8.93989 | 8.96223 |
| 430     | 8.98457 | 9.00692 | 9.02927 | 9.05162 | 9.07398 | 9.09634 | 9.11871 | 9.14109 | 9.16347 | 9.18585 |
| 440     | 9.20824 | 9.23064 | 9.25304 | 9.27544 | 9.29785 | 9.32027 | 9.34269 | 9.36511 | 9.38754 | 9.40998 |
| 450     | 9.43242 | 9.45486 | 9.47732 | 9.49977 | 9.52223 | 9.54470 | 9.56718 | 9.58965 | 9.61214 | 9.63463 |
| 460     | 9.65712 | 9.67962 | 9.70213 | 9.72464 | 9.74715 | 9.76967 | 9.79220 | 9.81473 | 9.83727 | 9.85981 |
| 470     | 9.88236 | 9.90492 | 9.92748 | 9.95004 | 9.97261 | 9.99519 | 10.0178 | 10.0404 | 10.0629 | 10.0855 |
| 480     | 10.1081 | 10.1308 | 10.1534 | 10.1760 | 10.1986 | 10.2212 | 10.2439 | 10.2665 | 10.2892 | 10.3118 |
| 490     | 10.3345 | 10.3571 | 10.3798 | 10.4025 | 10.4252 | 10.4478 | 10.4705 | 10.4932 | 10.5159 | 10.5386 |
| 500     | 10.5613 | 10.5840 | 10.6068 | 10.6295 | 10.6522 | 10.6749 | 10.6977 | 10.7204 | 10.7432 | 10.7659 |
| 510     | 10.7887 | 10.8115 | 10.8342 | 10.8570 | 10.8798 | 10.9026 | 10.9254 | 10.9481 | 10.9709 | 10.9938 |
| 520     | 11.0166 | 11.0394 | 11.0622 | 11.0850 | 11.1078 | 11.1307 | 11.1535 | 11.1763 | 11.1992 | 11.2220 |



## Temperature Vs. Voltage

Type K Thermocouple

Values are in millivolts

| Temp °F | +0      | +1      | +2      | +3      | +4      | +5      | +6      | +7      | +8      | +9      |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 530     | 11.2449 | 11.2678 | 11.2906 | 11.3135 | 11.3364 | 11.3592 | 11.3821 | 11.4050 | 11.4279 | 11.4508 |
| 540     | 11.4737 | 11.4966 | 11.5195 | 11.5424 | 11.5653 | 11.5882 | 11.6112 | 11.6341 | 11.6570 | 11.6800 |
| 550     | 11.7029 | 11.7258 | 11.7488 | 11.7717 | 11.7947 | 11.8177 | 11.8406 | 11.8636 | 11.8866 | 11.9095 |
| 560     | 11.9325 | 11.9555 | 11.9785 | 12.0015 | 12.0245 | 12.0475 | 12.0705 | 12.0935 | 12.1165 | 12.1395 |
| 570     | 12.1625 | 12.1855 | 12.2086 | 12.2316 | 12.2546 | 12.2777 | 12.3007 | 12.3237 | 12.3468 | 12.3698 |
| 580     | 12.3929 | 12.4159 | 12.4390 | 12.4621 | 12.4851 | 12.5082 | 12.5313 | 12.5543 | 12.5774 | 12.6005 |
| 590     | 12.6236 | 12.6467 | 12.6698 | 12.6928 | 12.7159 | 12.7390 | 12.7622 | 12.7853 | 12.8084 | 12.8315 |
| 600     | 12.8546 | 12.8777 | 12.9008 | 12.9240 | 12.9471 | 12.9702 | 12.9934 | 13.0165 | 13.0396 | 13.0628 |
| 610     | 13.0859 | 13.1091 | 13.1322 | 13.1554 | 13.1785 | 13.2017 | 13.2248 | 13.2480 | 13.2712 | 13.2943 |
| 620     | 13.3175 | 13.3407 | 13.3639 | 13.3871 | 13.4102 | 13.4334 | 13.4566 | 13.4798 | 13.5030 | 13.5262 |
| 630     | 13.5494 | 13.5726 | 13.5958 | 13.6190 | 13.6422 | 13.6654 | 13.6887 | 13.7119 | 13.7351 | 13.7583 |
| 640     | 13.7816 | 13.8048 | 13.8280 | 13.8512 | 13.8745 | 13.8977 | 13.9210 | 13.9442 | 13.9675 | 13.9907 |
| 650     | 14.0139 | 14.0372 | 14.0605 | 14.0837 | 14.1070 | 14.1302 | 14.1535 | 14.1768 | 14.2000 | 14.2233 |
| 660     | 14.2466 | 14.2699 | 14.2931 | 14.3164 | 14.3397 | 14.3630 | 14.3863 | 14.4096 | 14.4329 | 14.4562 |
| 670     | 14.4795 | 14.5028 | 14.5261 | 14.5494 | 14.5727 | 14.5960 | 14.6193 | 14.6426 | 14.6659 | 14.6893 |
| 680     | 14.7126 | 14.7359 | 14.7592 | 14.7826 | 14.8059 | 14.8292 | 14.8525 | 14.8759 | 14.8992 | 14.9226 |
| 690     | 14.9459 | 14.9692 | 14.9926 | 15.0159 | 15.0393 | 15.0626 | 15.0860 | 15.1094 | 15.1327 | 15.1561 |
| 700     | 15.1794 | 15.2028 | 15.2262 | 15.2496 | 15.2729 | 15.2963 | 15.3197 | 15.3431 | 15.3664 | 15.3898 |
| 710     | 15.4132 | 15.4366 | 15.4600 | 15.4834 | 15.5068 | 15.5302 | 15.5536 | 15.5770 | 15.6004 | 15.6238 |
| 720     | 15.6472 | 15.6706 | 15.6940 | 15.7174 | 15.7408 | 15.7642 | 15.7876 | 15.8111 | 15.8345 | 15.8579 |
| 730     | 15.8813 | 15.9047 | 15.9282 | 15.9516 | 15.9750 | 15.9985 | 16.0219 | 16.0453 | 16.0688 | 16.0922 |
| 740     | 16.1157 | 16.1391 | 16.1626 | 16.1860 | 16.2095 | 16.2329 | 16.2564 | 16.2798 | 16.3033 | 16.3267 |
| 750     | 16.3502 | 16.3737 | 16.3971 | 16.4206 | 16.4441 | 16.4676 | 16.4910 | 16.5145 | 16.5380 | 16.5615 |
| 760     | 16.5849 | 16.6084 | 16.6319 | 16.6554 | 16.6789 | 16.7024 | 16.7259 | 16.7493 | 16.7728 | 16.7963 |
| 770     | 16.8198 | 16.8433 | 16.8668 | 16.8903 | 16.9138 | 16.9374 | 16.9609 | 16.9844 | 17.0079 | 17.0314 |
| 780     | 17.0549 | 17.0784 | 17.1019 | 17.1255 | 17.1490 | 17.1725 | 17.1960 | 17.2196 | 17.2431 | 17.2666 |
| 790     | 17.2901 | 17.3137 | 17.3372 | 17.3608 | 17.3843 | 17.4078 | 17.4314 | 17.4549 | 17.4785 | 17.5020 |
| 800     | 17.5255 | 17.5491 | 17.5726 | 17.5962 | 17.6197 | 17.6433 | 17.6669 | 17.6904 | 17.7140 | 17.7375 |
| 810     | 17.7611 | 17.7847 | 17.8082 | 17.8318 | 17.8554 | 17.8789 | 17.9025 | 17.9261 | 17.9496 | 17.9732 |
| 820     | 17.9968 | 18.0204 | 18.0440 | 18.0675 | 18.0911 | 18.1147 | 18.1383 | 18.1619 | 18.1855 | 18.2090 |
| 830     | 18.2326 | 18.2562 | 18.2798 | 18.3034 | 18.3270 | 18.3506 | 18.3742 | 18.3978 | 18.4214 | 18.4450 |
| 840     | 18.4686 | 18.4922 | 18.5158 | 18.5394 | 18.5630 | 18.5866 | 18.6102 | 18.6339 | 18.6575 | 18.6811 |
| 850     | 18.7047 | 18.7283 | 18.7519 | 18.7755 | 18.7992 | 18.8228 | 18.8464 | 18.8700 | 18.8936 | 18.9173 |
| 860     | 18.9409 | 18.9645 | 18.9882 | 19.0118 | 19.0354 | 19.0590 | 19.0827 | 19.1063 | 19.1299 | 19.1536 |



## Temperature Vs. Voltage

Type K Thermocouple

Values are in millivolts

| Temp °F | +0      | +1      | +2      | +3      | +4      | +5      | +6      | +7      | +8      | +9      |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 870     | 19.1772 | 19.2009 | 19.2245 | 19.2481 | 19.2718 | 19.2954 | 19.3191 | 19.3427 | 19.3663 | 19.3900 |
| 880     | 19.4136 | 19.4373 | 19.4609 | 19.4846 | 19.5082 | 19.5319 | 19.5555 | 19.5792 | 19.6028 | 19.6265 |
| 890     | 19.6501 | 19.6738 | 19.6975 | 19.7211 | 19.7448 | 19.7684 | 19.7921 | 19.8157 | 19.8394 | 19.8631 |
| 900     | 19.8867 | 19.9104 | 19.9341 | 19.9577 | 19.9814 | 20.0051 | 20.0287 | 20.0524 | 20.0761 | 20.0997 |
| 910     | 20.1234 | 20.1471 | 20.1707 | 20.1944 | 20.2181 | 20.2418 | 20.2654 | 20.2891 | 20.3128 | 20.3365 |
| 920     | 20.3601 | 20.3838 | 20.4075 | 20.4312 | 20.4548 | 20.4785 | 20.5022 | 20.5259 | 20.5496 | 20.5732 |
| 930     | 20.5969 | 20.6206 | 20.6443 | 20.6680 | 20.6917 | 20.7153 | 20.7390 | 20.7627 | 20.7864 | 20.8101 |
| 940     | 20.8338 | 20.8574 | 20.8811 | 20.9048 | 20.9285 | 20.9522 | 20.9759 | 20.9996 | 21.0233 | 21.0469 |
| 950     | 21.0706 | 21.0943 | 21.1180 | 21.1417 | 21.1654 | 21.1891 | 21.2128 | 21.2365 | 21.2602 | 21.2838 |
| 960     | 21.3075 | 21.3312 | 21.3549 | 21.3786 | 21.4023 | 21.4260 | 21.4497 | 21.4734 | 21.4971 | 21.5208 |
| 970     | 21.5445 | 21.5682 | 21.5919 | 21.6155 | 21.6392 | 21.6629 | 21.6866 | 21.7103 | 21.7340 | 21.7577 |
| 980     | 21.7814 | 21.8051 | 21.8288 | 21.8525 | 21.8762 | 21.8999 | 21.9236 | 21.9473 | 21.9709 | 21.9946 |
| 990     | 22.0183 | 22.0420 | 22.0657 | 22.0894 | 22.1131 | 22.1368 | 22.1605 | 22.1842 | 22.2079 | 22.2316 |
| 1000    | 22.2553 | 22.2790 | 22.3026 | 22.3263 | 22.3500 | 22.3737 | 22.3974 | 22.4211 | 22.4448 | 22.4685 |
| 1010    | 22.4922 | 22.5159 | 22.5396 | 22.5632 | 22.5869 | 22.6106 | 22.6343 | 22.6580 | 22.6817 | 22.7054 |
| 1020    | 22.7291 | 22.7527 | 22.7764 | 22.8001 | 22.8238 | 22.8475 | 22.8712 | 22.8949 | 22.9185 | 22.9422 |
| 1030    | 22.9659 | 22.9896 | 23.0133 | 23.0369 | 23.0606 | 23.0843 | 23.1080 | 23.1317 | 23.1553 | 23.1790 |
| 1040    | 23.2027 | 23.2264 | 23.2501 | 23.2737 | 23.2974 | 23.3211 | 23.3448 | 23.3684 | 23.3921 | 23.4158 |
| 1050    | 23.4394 | 23.4631 | 23.4868 | 23.5105 | 23.5341 | 23.5578 | 23.5815 | 23.6051 | 23.6288 | 23.6525 |
| 1060    | 23.6761 | 23.6998 | 23.7235 | 23.7471 | 23.7708 | 23.7944 | 23.8181 | 23.8418 | 23.8654 | 23.8891 |
| 1070    | 23.9127 | 23.9364 | 23.9600 | 23.9837 | 24.0074 | 24.0310 | 24.0547 | 24.0783 | 24.1020 | 24.1256 |
| 1080    | 24.1493 | 24.1729 | 24.1965 | 24.2202 | 24.2438 | 24.2675 | 24.2911 | 24.3148 | 24.3384 | 24.3620 |
| 1090    | 24.3857 | 24.4093 | 24.4330 | 24.4566 | 24.4802 | 24.5039 | 24.5275 | 24.5511 | 24.5748 | 24.5984 |
| 1100    | 24.6220 | 24.6456 | 24.6693 | 24.6929 | 24.7165 | 24.7401 | 24.7638 | 24.7874 | 24.8110 | 24.8346 |
| 1110    | 24.8582 | 24.8819 | 24.9055 | 24.9291 | 24.9527 | 24.9763 | 24.9999 | 25.0235 | 25.0471 | 25.0707 |
| 1120    | 25.0943 | 25.1179 | 25.1415 | 25.1651 | 25.1887 | 25.2123 | 25.2359 | 25.2595 | 25.2831 | 25.3067 |
| 1130    | 25.3303 | 25.3539 | 25.3775 | 25.4011 | 25.4247 | 25.4483 | 25.4718 | 25.4954 | 25.5190 | 25.5426 |
| 1140    | 25.5662 | 25.5897 | 25.6133 | 25.6369 | 25.6605 | 25.6840 | 25.7076 | 25.7312 | 25.7547 | 25.7783 |
| 1150    | 25.8019 | 25.8254 | 25.8490 | 25.8725 | 25.8961 | 25.9196 | 25.9432 | 25.9668 | 25.9903 | 26.0139 |
| 1160    | 26.0374 | 26.0609 | 26.0845 | 26.1080 | 26.1316 | 26.1551 | 26.1786 | 26.2022 | 26.2257 | 26.2493 |
| 1170    | 26.2728 | 26.2963 | 26.3198 | 26.3434 | 26.3669 | 26.3904 | 26.4139 | 26.4375 | 26.4610 | 26.4845 |
| 1180    | 26.5080 | 26.5315 | 26.5550 | 26.5785 | 26.6020 | 26.6255 | 26.6491 | 26.6726 | 26.6961 | 26.7196 |
| 1190    | 26.7430 | 26.7665 | 26.7900 | 26.8135 | 26.8370 | 26.8605 | 26.8840 | 26.9075 | 26.9310 | 26.9544 |
| 1200    | 26.9779 | 27.0014 | 27.0249 | 27.0483 | 27.0718 | 27.0953 | 27.1187 | 27.1422 | 27.1657 | 27.1891 |



## Temperature Vs. Voltage

Type K Thermocouple

Values are in millivolts

| Temp °F | +0      | +1      | +2      | +3      | +4      | +5      | +6      | +7      | +8      | +9      |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1210    | 27.2126 | 27.2360 | 27.2595 | 27.2830 | 27.3064 | 27.3299 | 27.3533 | 27.3767 | 27.4002 | 27.4236 |
| 1220    | 27.4471 | 27.4705 | 27.4939 | 27.5174 | 27.5408 | 27.5642 | 27.5877 | 27.6111 | 27.6345 | 27.6579 |
| 1230    | 27.6813 | 27.7048 | 27.7282 | 27.7516 | 27.7750 | 27.7984 | 27.8218 | 27.8452 | 27.8686 | 27.8920 |
| 1240    | 27.9154 | 27.9388 | 27.9622 | 27.9856 | 28.0090 | 28.0324 | 28.0558 | 28.0791 | 28.1025 | 28.1259 |
| 1250    | 28.1493 | 28.1726 | 28.1960 | 28.2194 | 28.2427 | 28.2661 | 28.2895 | 28.3128 | 28.3362 | 28.3595 |
| 1260    | 28.3829 | 28.4063 | 28.4296 | 28.4529 | 28.4763 | 28.4996 | 28.5230 | 28.5463 | 28.5696 | 28.5930 |
| 1270    | 28.6163 | 28.6396 | 28.6630 | 28.6863 | 28.7096 | 28.7329 | 28.7562 | 28.7796 | 28.8029 | 28.8262 |
| 1280    | 28.8495 | 28.8728 | 28.8961 | 28.9194 | 28.9427 | 28.9660 | 28.9893 | 29.0126 | 29.0358 | 29.0591 |
| 1290    | 29.0824 | 29.1057 | 29.1290 | 29.1522 | 29.1755 | 29.1988 | 29.2221 | 29.2453 | 29.2686 | 29.2919 |
| 1300    | 29.3151 | 29.3384 | 29.3616 | 29.3849 | 29.4081 | 29.4314 | 29.4546 | 29.4778 | 29.5011 | 29.5243 |
| 1310    | 29.5476 | 29.5708 | 29.5940 | 29.6172 | 29.6405 | 29.6637 | 29.6869 | 29.7101 | 29.7333 | 29.7565 |
| 1320    | 29.7797 | 29.8030 | 29.8262 | 29.8494 | 29.8726 | 29.8957 | 29.9189 | 29.9421 | 29.9653 | 29.9885 |
| 1330    | 30.0117 | 30.0349 | 30.0580 | 30.0812 | 30.1044 | 30.1276 | 30.1507 | 30.1739 | 30.1970 | 30.2202 |
| 1340    | 30.2434 | 30.2665 | 30.2897 | 30.3128 | 30.3360 | 30.3591 | 30.3822 | 30.4054 | 30.4285 | 30.4516 |
| 1350    | 30.4748 | 30.4979 | 30.5210 | 30.5441 | 30.5673 | 30.5904 | 30.6135 | 30.6366 | 30.6597 | 30.6828 |
| 1360    | 30.7059 | 30.7290 | 30.7521 | 30.7752 | 30.7983 | 30.8214 | 30.8445 | 30.8675 | 30.8906 | 30.9137 |
| 1370    | 30.9368 | 30.9598 | 30.9829 | 31.0060 | 31.0290 | 31.0521 | 31.0752 | 31.0982 | 31.1213 | 31.1443 |
| 1380    | 31.1674 | 31.1904 | 31.2135 | 31.2365 | 31.2595 | 31.2826 | 31.3056 | 31.3286 | 31.3516 | 31.3747 |
| 1390    | 31.3977 | 31.4207 | 31.4437 | 31.4667 | 31.4897 | 31.5127 | 31.5357 | 31.5587 | 31.5817 | 31.6047 |
| 1400    | 31.6277 | 31.6507 | 31.6737 | 31.6967 | 31.7196 | 31.7426 | 31.7656 | 31.7886 | 31.8115 | 31.8345 |
| 1410    | 31.8575 | 31.8804 | 31.9034 | 31.9263 | 31.9493 | 31.9722 | 31.9952 | 32.0181 | 32.0410 | 32.0640 |
| 1420    | 32.0869 | 32.1098 | 32.1328 | 32.1557 | 32.1786 | 32.2015 | 32.2245 | 32.2474 | 32.2703 | 32.2932 |
| 1430    | 32.3161 | 32.3390 | 32.3619 | 32.3848 | 32.4077 | 32.4306 | 32.4534 | 32.4763 | 32.4992 | 32.5221 |
| 1440    | 32.5450 | 32.5678 | 32.5907 | 32.6136 | 32.6364 | 32.6593 | 32.6821 | 32.7050 | 32.7279 | 32.7507 |
| 1450    | 32.7735 | 32.7964 | 32.8192 | 32.8421 | 32.8649 | 32.8877 | 32.9106 | 32.9334 | 32.9562 | 32.9790 |
| 1460    | 33.0018 | 33.0246 | 33.0475 | 33.0703 | 33.0931 | 33.1159 | 33.1387 | 33.1615 | 33.1842 | 33.2070 |
| 1470    | 33.2298 | 33.2526 | 33.2754 | 33.2982 | 33.3209 | 33.3437 | 33.3665 | 33.3892 | 33.4120 | 33.4348 |
| 1480    | 33.4575 | 33.4803 | 33.5030 | 33.5258 | 33.5485 | 33.5712 | 33.5940 | 33.6167 | 33.6394 | 33.6622 |
| 1490    | 33.6849 | 33.7076 | 33.7303 | 33.7531 | 33.7758 | 33.7985 | 33.8212 | 33.8439 | 33.8666 | 33.8893 |
| 1500    | 33.9120 | 33.9347 | 33.9574 | 33.9800 | 34.0027 | 34.0254 | 34.0481 | 34.0708 | 34.0934 | 34.1161 |
| 1510    | 34.1388 | 34.1614 | 34.1841 | 34.2067 | 34.2294 | 34.2520 | 34.2747 | 34.2973 | 34.3200 | 34.3426 |
| 1520    | 34.3652 | 34.3879 | 34.4105 | 34.4331 | 34.4557 | 34.4784 | 34.5010 | 34.5236 | 34.5462 | 34.5688 |
| 1530    | 34.5914 | 34.6140 | 34.6366 | 34.6592 | 34.6818 | 34.7044 | 34.7270 | 34.7496 | 34.7721 | 34.7947 |
| 1540    | 34.8173 | 34.8399 | 34.8624 | 34.8850 | 34.9075 | 34.9301 | 34.9527 | 34.9752 | 34.9978 | 35.0203 |

## Temperature Vs. Voltage

Type K Thermocouple

Values are in millivolts

| Temp °F | +0      | +1      | +2      | +3      | +4      | +5      | +6      | +7      | +8      | +9      |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1550    | 35.0428 | 35.0654 | 35.0879 | 35.1104 | 35.1330 | 35.1555 | 35.1780 | 35.2005 | 35.2231 | 35.2456 |
| 1560    | 35.2681 | 35.2906 | 35.3131 | 35.3356 | 35.3581 | 35.3806 | 35.4031 | 35.4256 | 35.4481 | 35.4706 |
| 1570    | 35.4930 | 35.5155 | 35.5380 | 35.5605 | 35.5829 | 35.6054 | 35.6279 | 35.6503 | 35.6728 | 35.6952 |
| 1580    | 35.7177 | 35.7401 | 35.7626 | 35.7850 | 35.8074 | 35.8299 | 35.8523 | 35.8747 | 35.8972 | 35.9196 |
| 1590    | 35.9420 | 35.9644 | 35.9868 | 36.0092 | 36.0316 | 36.0540 | 36.0764 | 36.0988 | 36.1212 | 36.1436 |
| 1600    | 36.1660 | 36.1884 | 36.2108 | 36.2332 | 36.2555 | 36.2779 | 36.3003 | 36.3226 | 36.3450 | 36.3674 |
| 1610    | 36.3897 | 36.4121 | 36.4344 | 36.4568 | 36.4791 | 36.5015 | 36.5238 | 36.5461 | 36.5685 | 36.5908 |
| 1620    | 36.6131 | 36.6354 | 36.6578 | 36.6801 | 36.7024 | 36.7247 | 36.7470 | 36.7693 | 36.7916 | 36.8139 |
| 1630    | 36.8362 | 36.8585 | 36.8808 | 36.9031 | 36.9254 | 36.9476 | 36.9699 | 36.9922 | 37.0145 | 37.0367 |
| 1640    | 37.0590 | 37.0813 | 37.1035 | 37.1258 | 37.1480 | 37.1703 | 37.1925 | 37.2148 | 37.2370 | 37.2592 |
| 1650    | 37.2815 | 37.3037 | 37.3259 | 37.3481 | 37.3704 | 37.3926 | 37.4148 | 37.4370 | 37.4592 | 37.4814 |
| 1660    | 37.5036 | 37.5258 | 37.5480 | 37.5702 | 37.5924 | 37.6146 | 37.6368 | 37.6589 | 37.6811 | 37.7033 |
| 1670    | 37.7255 | 37.7476 | 37.7698 | 37.7920 | 37.8141 | 37.8363 | 37.8584 | 37.8806 | 37.9027 | 37.9249 |
| 1680    | 37.9470 | 37.9691 | 37.9913 | 38.0134 | 38.0355 | 38.0576 | 38.0798 | 38.1019 | 38.1240 | 38.1461 |
| 1690    | 38.1682 | 38.1903 | 38.2124 | 38.2345 | 38.2566 | 38.2787 | 38.3008 | 38.3229 | 38.3450 | 38.3671 |
| 1700    | 38.3891 | 38.4112 | 38.4333 | 38.4553 | 38.4774 | 38.4995 | 38.5215 | 38.5436 | 38.5656 | 38.5877 |
| 1710    | 38.6097 | 38.6318 | 38.6538 | 38.6758 | 38.6979 | 38.7199 | 38.7419 | 38.7640 | 38.7860 | 38.8080 |
| 1720    | 38.8300 | 38.8520 | 38.8740 | 38.8960 | 38.9180 | 38.9400 | 38.9620 | 38.9840 | 39.0060 | 39.0280 |
| 1730    | 39.0500 | 39.0720 | 39.0939 | 39.1159 | 39.1379 | 39.1598 | 39.1818 | 39.2038 | 39.2257 | 39.2477 |
| 1740    | 39.2696 | 39.2916 | 39.3135 | 39.3355 | 39.3574 | 39.3793 | 39.4013 | 39.4232 | 39.4451 | 39.4671 |
| 1750    | 39.4890 | 39.5109 | 39.5328 | 39.5547 | 39.5766 | 39.5985 | 39.6204 | 39.6423 | 39.6642 | 39.6861 |
| 1760    | 39.7080 | 39.7299 | 39.7518 | 39.7737 | 39.7955 | 39.8174 | 39.8393 | 39.8611 | 39.8830 | 39.9049 |
| 1770    | 39.9267 | 39.9486 | 39.9704 | 39.9923 | 40.0141 | 40.0360 | 40.0578 | 40.0796 | 40.1015 | 40.1233 |
| 1780    | 40.1451 | 40.1669 | 40.1888 | 40.2106 | 40.2324 | 40.2542 | 40.2760 | 40.2978 | 40.3196 | 40.3414 |
| 1790    | 40.3632 | 40.3850 | 40.4068 | 40.4286 | 40.4503 | 40.4721 | 40.4939 | 40.5157 | 40.5374 | 40.5592 |
| 1800    | 40.5809 | 40.6027 | 40.6245 | 40.6462 | 40.6680 | 40.6897 | 40.7114 | 40.7332 | 40.7549 | 40.7767 |
| 1810    | 40.7984 | 40.8201 | 40.8418 | 40.8636 | 40.8853 | 40.9070 | 40.9287 | 40.9504 | 40.9721 | 40.9938 |
| 1820    | 41.0155 | 41.0372 | 41.0589 | 41.0806 | 41.1023 | 41.1239 | 41.1456 | 41.1673 | 41.1890 | 41.2106 |
| 1830    | 41.2323 | 41.2539 | 41.2756 | 41.2973 | 41.3189 | 41.3406 | 41.3622 | 41.3838 | 41.4055 | 41.4271 |
| 1840    | 41.4488 | 41.4704 | 41.4920 | 41.5136 | 41.5352 | 41.5569 | 41.5785 | 41.6001 | 41.6217 | 41.6433 |
| 1850    | 41.6649 | 41.6865 | 41.7081 | 41.7297 | 41.7513 | 41.7728 | 41.7944 | 41.8160 | 41.8376 | 41.8591 |
| 1860    | 41.8807 | 41.9023 | 41.9238 | 41.9454 | 41.9669 | 41.9885 | 42.0100 | 42.0316 | 42.0531 | 42.0746 |
| 1870    | 42.0962 | 42.1177 | 42.1392 | 42.1608 | 42.1823 | 42.2038 | 42.2253 | 42.2468 | 42.2683 | 42.2898 |
| 1880    | 42.3113 | 42.3328 | 42.3543 | 42.3758 | 42.3973 | 42.4188 | 42.4403 | 42.4617 | 42.4832 | 42.5047 |



## Temperature Vs. Voltage

Type K Thermocouple

Values are in millivolts

| Temp °F | +0      | +1      | +2      | +3      | +4      | +5      | +6      | +7      | +8      | +9      |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1890    | 42.5261 | 42.5476 | 42.5691 | 42.5905 | 42.6120 | 42.6334 | 42.6549 | 42.6763 | 42.6977 | 42.7192 |
| 1900    | 42.7406 | 42.7620 | 42.7835 | 42.8049 | 42.8263 | 42.8477 | 42.8691 | 42.8905 | 42.9119 | 42.9333 |
| 1910    | 42.9547 | 42.9761 | 42.9975 | 43.0189 | 43.0403 | 43.0617 | 43.0831 | 43.1044 | 43.1258 | 43.1472 |
| 1920    | 43.1685 | 43.1899 | 43.2112 | 43.2326 | 43.2540 | 43.2753 | 43.2966 | 43.3180 | 43.3393 | 43.3606 |
| 1930    | 43.3820 | 43.4033 | 43.4246 | 43.4459 | 43.4673 | 43.4886 | 43.5099 | 43.5312 | 43.5525 | 43.5738 |
| 1940    | 43.5951 | 43.6164 | 43.6376 | 43.6589 | 43.6802 | 43.7015 | 43.7228 | 43.7440 | 43.7653 | 43.7866 |
| 1950    | 43.8078 | 43.8291 | 43.8503 | 43.8716 | 43.8928 | 43.9140 | 43.9353 | 43.9565 | 43.9777 | 43.9990 |
| 1960    | 44.0202 | 44.0414 | 44.0626 | 44.0838 | 44.1051 | 44.1263 | 44.1475 | 44.1687 | 44.1898 | 44.2110 |
| 1970    | 44.2322 | 44.2534 | 44.2746 | 44.2958 | 44.3169 | 44.3381 | 44.3593 | 44.3804 | 44.4016 | 44.4227 |
| 1980    | 44.4439 | 44.4650 | 44.4862 | 44.5073 | 44.5285 | 44.5496 | 44.5707 | 44.5918 | 44.6130 | 44.6341 |
| 1990    | 44.6552 | 44.6763 | 44.6974 | 44.7185 | 44.7396 | 44.7607 | 44.7818 | 44.8029 | 44.8240 | 44.8450 |
| 2000    | 44.8661 | 44.8872 | 44.9083 | 44.9293 | 44.9504 | 44.9714 | 44.9925 | 45.0135 | 45.0346 | 45.0556 |
| 2010    | 45.0767 | 45.0977 | 45.1187 | 45.1398 | 45.1608 | 45.1818 | 45.2028 | 45.2238 | 45.2448 | 45.2658 |
| 2020    | 45.2868 | 45.3078 | 45.3288 | 45.3498 | 45.3708 | 45.3918 | 45.4128 | 45.4337 | 45.4547 | 45.4757 |
| 2030    | 45.4966 | 45.5176 | 45.5386 | 45.5595 | 45.5804 | 45.6014 | 45.6223 | 45.6433 | 45.6642 | 45.6851 |
| 2040    | 45.7060 | 45.7270 | 45.7479 | 45.7688 | 45.7897 | 45.8106 | 45.8315 | 45.8524 | 45.8733 | 45.8942 |
| 2050    | 45.9151 | 45.9359 | 45.9568 | 45.9777 | 45.9986 | 46.0194 | 46.0403 | 46.0611 | 46.0820 | 46.1028 |
| 2060    | 46.1237 | 46.1445 | 46.1654 | 46.1862 | 46.2070 | 46.2278 | 46.2487 | 46.2695 | 46.2903 | 46.3111 |
| 2070    | 46.3319 | 46.3527 | 46.3735 | 46.3943 | 46.4151 | 46.4359 | 46.4566 | 46.4774 | 46.4982 | 46.5190 |
| 2080    | 46.5397 | 46.5605 | 46.5812 | 46.6020 | 46.6227 | 46.6435 | 46.6642 | 46.6849 | 46.7057 | 46.7264 |
| 2090    | 46.7471 | 46.7678 | 46.7886 | 46.8093 | 46.8300 | 46.8507 | 46.8714 | 46.8921 | 46.9128 | 46.9334 |
| 2100    | 46.9541 | 46.9748 | 46.9955 | 47.0161 | 47.0368 | 47.0575 | 47.0781 | 47.0988 | 47.1194 | 47.1401 |
| 2110    | 47.1607 | 47.1813 | 47.2020 | 47.2226 | 47.2432 | 47.2638 | 47.2844 | 47.3050 | 47.3256 | 47.3462 |
| 2120    | 47.3668 | 47.3874 | 47.4080 | 47.4286 | 47.4492 | 47.4698 | 47.4903 | 47.5109 | 47.5315 | 47.5520 |
| 2130    | 47.5726 | 47.5931 | 47.6137 | 47.6342 | 47.6547 | 47.6753 | 47.6958 | 47.7163 | 47.7368 | 47.7574 |
| 2140    | 47.7779 | 47.7984 | 47.8189 | 47.8394 | 47.8599 | 47.8803 | 47.9008 | 47.9213 | 47.9418 | 47.9623 |
| 2150    | 47.9827 | 48.0032 | 48.0236 | 48.0441 | 48.0645 | 48.0850 | 48.1054 | 48.1259 | 48.1463 | 48.1667 |
| 2160    | 48.1871 | 48.2075 | 48.2280 | 48.2484 | 48.2688 | 48.2892 | 48.3096 | 48.3300 | 48.3503 | 48.3707 |
| 2170    | 48.3911 | 48.4115 | 48.4318 | 48.4522 | 48.4726 | 48.4929 | 48.5133 | 48.5336 | 48.5539 | 48.5743 |
| 2180    | 48.5946 | 48.6149 | 48.6353 | 48.6556 | 48.6759 | 48.6962 | 48.7165 | 48.7368 | 48.7571 | 48.7774 |
| 2190    | 48.7977 | 48.8180 | 48.8382 | 48.8585 | 48.8788 | 48.8990 | 48.9193 | 48.9396 | 48.9598 | 48.9800 |
| 2200    | 49.0003 | 49.0205 | 49.0408 | 49.0610 | 49.0812 | 49.1014 | 49.1216 | 49.1418 | 49.1620 | 49.1822 |
| 2210    | 49.2024 | 49.2226 | 49.2428 | 49.2630 | 49.2832 | 49.3033 | 49.3235 | 49.3436 | 49.3638 | 49.3840 |
| 2220    | 49.4041 | 49.4242 | 49.4444 | 49.4645 | 49.4846 | 49.5048 | 49.5249 | 49.5450 | 49.5651 | 49.5852 |





## Temperature Vs. Voltage

Type K Thermocouple

Values are in millivolts

| Temp °F | +0      | +1      | +2      | +3      | +4      | +5      | +6      | +7      | +8      | +9      |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 2230    | 49.6053 | 49.6254 | 49.6455 | 49.6656 | 49.6857 | 49.7057 | 49.7258 | 49.7459 | 49.7659 | 49.7860 |
| 2240    | 49.8060 | 49.8261 | 49.8461 | 49.8662 | 49.8862 | 49.9062 | 49.9263 | 49.9463 | 49.9663 | 49.9863 |
| 2250    | 50.0063 | 50.0263 | 50.0463 | 50.0663 | 50.0863 | 50.1062 | 50.1262 | 50.1462 | 50.1662 | 50.1861 |
| 2260    | 50.2061 | 50.2260 | 50.2460 | 50.2659 | 50.2858 | 50.3058 | 50.3257 | 50.3456 | 50.3655 | 50.3855 |
| 2270    | 50.4054 | 50.4253 | 50.4452 | 50.4651 | 50.4849 | 50.5048 | 50.5247 | 50.5446 | 50.5645 | 50.5843 |
| 2280    | 50.6042 | 50.6240 | 50.6439 | 50.6637 | 50.6836 | 50.7034 | 50.7232 | 50.7431 | 50.7629 | 50.7827 |
| 2290    | 50.8025 | 50.8223 | 50.8421 | 50.8619 | 50.8817 | 50.9015 | 50.9213 | 50.9410 | 50.9608 | 50.9806 |
| 2300    | 51.0003 | 51.0201 | 51.0398 | 51.0596 | 51.0793 | 51.0991 | 51.1188 | 51.1385 | 51.1582 | 51.1780 |
| 2310    | 51.1977 | 51.2174 | 51.2371 | 51.2568 | 51.2765 | 51.2962 | 51.3158 | 51.3355 | 51.3552 | 51.3749 |
| 2320    | 51.3945 | 51.4142 | 51.4338 | 51.4535 | 51.4731 | 51.4928 | 51.5124 | 51.5320 | 51.5517 | 51.5713 |
| 2330    | 51.5909 | 51.6105 | 51.6301 | 51.6497 | 51.6693 | 51.6889 | 51.7085 | 51.7281 | 51.7476 | 51.7672 |
| 2340    | 51.7868 | 51.8063 | 51.8259 | 51.8454 | 51.8650 | 51.8845 | 51.9041 | 51.9236 | 51.9431 | 51.9626 |
| 2350    | 51.9822 | 52.0017 | 52.0212 | 52.0407 | 52.0602 | 52.0797 | 52.0991 | 52.1186 | 52.1381 | 52.1576 |
| 2360    | 52.1770 | 52.1965 | 52.2160 | 52.2354 | 52.2549 | 52.2743 | 52.2937 | 52.3132 | 52.3326 | 52.3520 |
| 2370    | 52.3715 | 52.3909 | 52.4103 | 52.4297 | 52.4491 | 52.4685 | 52.4879 | 52.5072 | 52.5266 | 52.5460 |
| 2380    | 52.5654 | 52.5847 | 52.6041 | 52.6235 | 52.6428 | 52.6622 | 52.6815 | 52.7008 | 52.7202 | 52.7395 |
| 2390    | 52.7588 | 52.7781 | 52.7974 | 52.8167 | 52.8361 | 52.8553 | 52.8746 | 52.8939 | 52.9132 | 52.9325 |
| 2400    | 52.9518 | 52.9710 | 52.9903 | 53.0096 | 53.0288 | 53.0481 | 53.0673 | 53.0866 | 53.1058 | 53.1250 |
| 2410    | 53.1443 | 53.1635 | 53.1827 | 53.2019 | 53.2211 | 53.2403 | 53.2595 | 53.2787 | 53.2979 | 53.3171 |
| 2420    | 53.3363 | 53.3554 | 53.3746 | 53.3938 | 53.4129 | 53.4321 | 53.4512 | 53.4704 | 53.4895 | 53.5087 |
| 2430    | 53.5278 | 53.5469 | 53.5661 | 53.5852 | 53.6043 | 53.6234 | 53.6425 | 53.6616 | 53.6807 | 53.6998 |
| 2440    | 53.7189 | 53.7380 | 53.7571 | 53.7761 | 53.7952 | 53.8143 | 53.8333 | 53.8524 | 53.8714 | 53.8905 |
| 2450    | 53.9095 | 53.9286 | 53.9476 | 53.9666 | 53.9857 | 54.0047 | 54.0237 | 54.0427 | 54.0617 | 54.0807 |
| 2460    | 54.0997 | 54.1187 | 54.1377 | 54.1567 | 54.1757 | 54.1947 | 54.2136 | 54.2326 | 54.2516 | 54.2705 |
| 2470    | 54.2895 | 54.3084 | 54.3274 | 54.3463 | 54.3653 | 54.3842 | 54.4031 | 54.4221 | 54.4410 | 54.4599 |
| 2480    | 54.4788 | 54.4977 | 54.5166 | 54.5355 | 54.5544 | 54.5733 | 54.5922 | 54.6111 | 54.6300 | 54.6489 |
| 2490    | 54.6677 | 54.6866 | 54.7055 | 54.7243 | 54.7432 | 54.7620 | 54.7809 | 54.7997 | 54.8186 | 54.8374 |
| 2500    | 54.8562 | 54.8751 |         |         |         |         |         |         |         |         |