

The chart below shows the lookup values for DataNab's Standard 10K Thermistor Sensors. The standard table is compatible with Andover, Invensys (Siebe), Delta, Carrier, KMC, Multinet, AAM, and more. A more detailed table is available upon request.

Different Curves for Siemens, Honeywell, Johnson Controls, Solidyne, Trane, Alerton, and Automated Logic are also available upon request!

The columns for Volts & 10-bit values are valid when used with DataNab's Ai32, AiO8, & Ai8-R13 Modules. When used with input modules that have a different power sourcing arrangement or a different A/D resolution, adjust the values appropriately.

R <sub>T</sub> = 10,000 ohms @ 25°C		pull-up resistor (ohms)	10000	
alpha @25C = -4.39%		full-scale volts	5.0	
beta (0/50C) = 3890K		resolution in bits	10	
DegC	DegF	OHMS	Volts	10-bit Val
-50	<b>-58</b>	667828	4.926	<b>1009</b>
-40	<b>-40</b>	335,671	4.855	<b>994</b>
-30	<b>-22</b>	176,683	4.732	<b>969</b>
-20	<b>-4</b>	96,974	4.533	<b>928</b>
-10	<b>14</b>	55,298	4.234	<b>867</b>
0	<b>32</b>	32,650	3.828	<b>784</b>
10	<b>50</b>	19,903	3.328	<b>682</b>
20	<b>68</b>	12,493	2.777	<b>569</b>
25	<b>77</b>	10,000	2.500	<b>512</b>
30	<b>86</b>	8,056	2.231	<b>457</b>
40	<b>104</b>	5,324	1.737	<b>356</b>
50	<b>122</b>	3,601	1.324	<b>271</b>
60	<b>140</b>	2,487	0.996	<b>204</b>
70	<b>158</b>	1,751	0.745	<b>153</b>
80	<b>176</b>	1,256	0.558	<b>114</b>
90	<b>194</b>	916	0.420	<b>86</b>
100	<b>212</b>	679	0.318	<b>65</b>
110	<b>230</b>	510	0.243	<b>50</b>
120	<b>248</b>	389	0.187	<b>38</b>
130	<b>266</b>	300	0.146	<b>30</b>
140	<b>284</b>	234	0.114	<b>23</b>
150	<b>302</b>	185	0.091	<b>19</b>