



# Silicon Diode Thermometer

Sensor Model: Si410

Calibration Current: 100 microamps

## Typical Response

020-121

Temp. K	+0.0	+1.0	+2.0	+3.0	+4.0	+5.0	+6.0	+7.0	+8.0	+9.0
0		1.7550	1.7504	1.7231	1.7024	1.6555	1.6103	1.5761	1.5430	1.5103
10	1.4786	1.4450	1.4166	1.3934	1.3777	1.3614	1.3399	1.3188	1.2981	1.2784
20	1.2576	1.2333	1.2105	1.1882	1.1658	1.1473	1.1326	1.1229	1.1185	1.1148
30	1.1118	1.1096	1.1076	1.1058	1.1041	1.1026	1.1010	1.0996	1.0981	1.0966
40	1.0952	1.0937	1.0923	1.0909	1.0895	1.0882	1.0868	1.0854	1.0840	1.0827
50	1.0813	1.0799	1.0785	1.0771	1.0757	1.0742	1.0728	1.0714	1.0699	1.0685
60	1.0670	1.0656	1.0641	1.0626	1.0612	1.0597	1.0582	1.0567	1.0552	1.0537
70	1.0522	1.0507	1.0492	1.0477	1.0462	1.0447	1.0432	1.0417	1.0402	1.0387
80	1.0372	1.0357	1.0342	1.0326	1.0311	1.0296	1.0280	1.0265	1.0249	1.0234
90	1.0218	1.0202	1.0187	1.0171	1.0155	1.0139	1.0123	1.0107	1.0091	1.0075
100	1.0058	1.0042	1.0026	1.0010	0.9994	0.9977	0.9961	0.9945	0.9928	0.9912
110	0.9895	0.9879	0.9862	0.9845	0.9829	0.9812	0.9795	0.9778	0.9762	0.9745
120	0.9728	0.9710	0.9693	0.9676	0.9659	0.9641	0.9624	0.9607	0.9589	0.9572
130	0.9554	0.9537	0.9519	0.9502	0.9484	0.9467	0.9449	0.9432	0.9414	0.9396
140	0.9378	0.9361	0.9343	0.9325	0.9307	0.9289	0.9271	0.9254	0.9236	0.9218
150	0.9200	0.9182	0.9163	0.9145	0.9127	0.9109	0.9091	0.9073	0.9054	0.9036
160	0.9018	0.8999	0.8981	0.8962	0.8944	0.8925	0.8906	0.8888	0.8869	0.8850
170	0.8832	0.8813	0.8794	0.8775	0.8757	0.8738	0.8719	0.8700	0.8681	0.8663
180	0.8644	0.8625	0.8606	0.8587	0.8568	0.8549	0.8530	0.8511	0.8492	0.8473
190	0.8454	0.8435	0.8416	0.8397	0.8377	0.8358	0.8339	0.8320	0.8301	0.8281
200	0.8262	0.8243	0.8224	0.8204	0.8185	0.8166	0.8146	0.8127	0.8108	0.8088
210	0.8069	0.8049	0.8030	0.8011	0.7991	0.7972	0.7952	0.7933	0.7913	0.7893
220	0.7874	0.7854	0.7835	0.7815	0.7795	0.7776	0.7756	0.7736	0.7716	0.7697
230	0.7677	0.7657	0.7637	0.7618	0.7598	0.7578	0.7558	0.7538	0.7518	0.7498
240	0.7478	0.7458	0.7438	0.7418	0.7398	0.7378	0.7358	0.7338	0.7317	0.7297
250	0.7277	0.7257	0.7237	0.7217	0.7196	0.7176	0.7156	0.7136	0.7115	0.7095
260	0.7075	0.7055	0.7034	0.7014	0.6994	0.6973	0.6953	0.6933	0.6912	0.6892
270	0.6871	0.6851	0.6831	0.6810	0.6790	0.6769	0.6749	0.6728	0.6708	0.6687
280	0.6667	0.6646	0.6626	0.6605	0.6585	0.6564	0.6543	0.6523	0.6502	0.6482
290	0.6461	0.6440	0.6420	0.6399	0.6378	0.6358	0.6337	0.6316	0.6295	0.6275
300	0.6254	0.6233	0.6212	0.6192	0.6171	0.6150	0.6129	0.6108	0.6087	0.6067
310	0.6046	0.6025	0.6004	0.5983	0.5962	0.5941	0.5920	0.5899	0.5878	0.5857
320	0.5836	0.5815	0.5794	0.5773	0.5752	0.5731	0.5710	0.5689	0.5668	0.5647
330	0.5626	0.5605	0.5583	0.5562	0.5541	0.5520	0.5499	0.5478	0.5456	0.5435
340	0.5414	0.5393	0.5371	0.5350	0.5329	0.5308	0.5286	0.5265	0.5244	0.5222
350	0.5201	0.5180	0.5158	0.5137	0.5115	0.5094	0.5073	0.5051	0.5030	0.5008
360	0.4987	0.4965	0.4944	0.4922	0.4901	0.4879	0.4858	0.4836	0.4815	0.4793
370	0.4771	0.4750	0.4728	0.4707	0.4685	0.4663	0.4642	0.4620	0.4598	0.4577
380	0.4555	0.4533	0.4511	0.4490	0.4468	0.4446	0.4424	0.4403	0.4381	0.4359
390	0.4337	0.4315	0.4293	0.4272	0.4250	0.4228	0.4206	0.4184	0.4162	0.4140
400	0.4118	0.4096	0.4074	0.4052	0.4030	0.4008	0.3986	0.3964	0.3942	0.3920
410	0.3898	0.3876	0.3854	0.3832	0.3810	0.3788	0.3765	0.3743	0.3721	0.3699
420	0.3677	0.3655	0.3632	0.3610	0.3588	0.3566	0.3543	0.3521	0.3499	0.3477
430	0.3454	0.3432	0.3410	0.3387	0.3365	0.3343	0.3320	0.3298	0.3275	0.3253
440	0.3231	0.3208	0.3186	0.3163	0.3141	0.3118	0.3096	0.3073	0.3051	0.3028
450	0.3006									

Record of Revisions						
Rev	ECN#	Description	Rev by	Date	Appr by	Date
-		Initial Release	JWS	11/21/05	<i>[Signature]</i>	12/15/05