

**MODEL TCS602**
**2.252kΩ Thermistor (at 25°C)**
**10μA TEMPERATURE RANGE: -60°C TO -12°C**
**100μA TEMPERATURE RANGE: -33°C TO +15°C**

TEMP °C	R <sub>T</sub> (Ω)	VOLT (V) (10μA)	VOLT (V) (100μA)	TEMP °C	R <sub>T</sub> (Ω)	VOLT (V) (10μA)	VOLT (V) (100μA)	TEMP °C	R <sub>T</sub> (Ω)	VOLT (V) (10μA)	VOLT (V) (100μA)
-60	317937	3.179		-35	54746	0.547		-10	12463		1.246
-59	294472	2.944		-34	51346	0.513		-9	11805		1.180
-58	272897	2.729		-33	48170	0.481	4.817	-8	11186		1.118
-57	253035	2.530		-32	45220	0.452	4.522	-7	10602		1.060
-56	234748	2.347		-31	42473	0.424	4.247	-6	10053		1.005
-55	217926	2.179		-30	39905	0.399	3.990	-5	9535		0.953
-54	202387	2.023		-29	37496	0.375	3.749	-4	9046		0.904
-53	188087	1.880		-28	35266	0.352	3.526	-3	8585		0.858
-52	174868	1.748		-27	33172	0.331	3.317	-2	8152		0.815
-51	162684	1.626		-26	31213	0.312	3.121	-1	7742		0.774
-50	151402	1.514		-25	29389	0.293	2.938	<b>0</b>	<b>7355</b>		<b>0.735</b>
-49	140998	1.410		-24	27677	0.276	2.767	1	6990		0.699
-48	131359	1.313		-23	26078	0.260	2.607	2	6646		0.664
-47	122464	1.224		-22	24592	0.245	2.459	3	6319		0.631
-46	114199	1.142		-21	23196	0.232	2.319	4	6011		0.601
-45	106565	1.065		-20	21874	0.218	2.187	5	5720		0.572
-44	99493	0.994		-19	20642	0.206	2.064	6	5445		0.544
-43	92918	0.929		-18	19489	0.194	1.948	7	5184		0.518
-42	86837	0.868		-17	18406	0.184	1.840	8	4936		0.493
-41	81185	0.811		-16	17390	0.173	1.739	9	4704		0.470
-40	75937	0.759		-15	16435	0.164	1.643	10	4481		0.448
-39	71051	0.710		-14	15539	0.155	1.553	11	4272		0.427
-38	66524	0.665		-13	14697	0.147	1.469	12	4074		0.407
-37	62313	0.623		-12	13906	0.139	1.390	13	3887		0.388
-36	58394	0.583		-11	13163		1.316	14	3709		0.370
								15	3538		0.353

You can approximate the response of a thermistor with the Steinhart-Hart Equation. The A, B, and C values listed below apply to the following equation. The coefficients are optimized for the ranges covered by the reference currents.

$$\frac{1}{(T)} = A + B \times \ln R + C \times (\ln R)^3$$

where R is in ohms and T is in Kelvin.

10μA	100μA
A= 1.4633E-03	A= 1.4714E-03
B= 2.3911E-04	B= 2.3777E-04
C= 9.7795E-08	C= 1.0297E-07