GENUINE COMFORT

DELIVERING COMFORT CONSISTENTLY

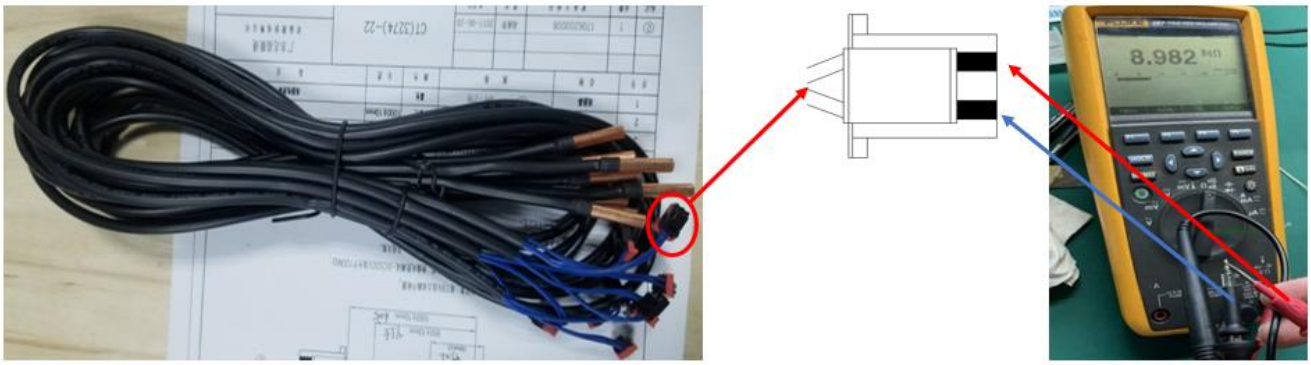
Genuine Comfort Sensor Testing

The standard resistance of these temperature sensors should be measured at an ambient temp of 25℃(77℉), please see below:

1. Please set the multimeter to KΩ

2. Connect the red and black measuring terminals to the sensor connectors(as shown in the pic below);

T1/T2/T3/T4/T5 Temperature sensor



T1/T2/T3/T4：R25=5KΩ±2%　Ambient temp=25°C

T5(Only for Inverter C series): R25=50K±3%　　Ambient temp=25°C

3. Observe the displayed resistance value. If the resistance is around 5KΩ, it shows the sensor is normal; If it displays 0 or infinity, it means the sensor is short circuited or open circuited, the sensor is damaged, and need replace with a new one.

NOTE: If the ambient temp is not 25℃, please check the attached table for the corresponding resistant value of different temperature.

I. Temperature sensor resistance value table for T1, T2, T3 and T4 (°C – K)

Temperature ºC	Resistance （kΩ）	Temperature ºC	Resistance （kΩ）	Temperature ºC	Resistance （kΩ）
-25	41.99	17	6.729	59	1.615
-24	39.96	18	6.478	60	1.567
-23	38.05	19	6.238	61	1.521
-22	36.24	20	6.008	62	1.476
-21	34.52	21	5.789	63	1.433
-20	32.9	22	5.578	64	1.391
-19	31.37	23	5.377	65	1.351
-18	29.91	24	5.185	66	1.312
-17	28.53	25	5	67	1.274
-16	27.22	26	4.821	68	1.237
-15	25.98	27	4.649	69	1.202
-14	24.52	28	4.485	70	1.168
-13	23.43	29	4.327	71	1.135
-12	22.39	30	4.176	72	1.103
-11	21.41	31	4.031	73	1.072
-10	20.48	32	3.892	74	1.043
-9	19.59	33	3.759	75	1.019
-8	18.74	34	3.631	76	0.9914
-7	17.93	35	3.508	77	0.9642
-6	17.16	36	3.389	78	0.9379
-5	16.431	37	3.275	79	0.9124
-4	15.739	38	3.165	80	0.8877
-3	15.08	39	3.06	81	0.8638
-2	14.454	40	2.959	82	0.8406
-1	13.857	41	2.861	83	0.8181
0	13.29	42	2.768	84	0.7963
1	12.739	43	2.678	85	0.7752
2	12.215	44	2.592	86	0.7547
3	11.717	45	2.509	87	0.7348
4	11.241	46	2.429	88	0.7155
5	10.789	47	2.352	89	0.6968
6	10.357	48	2.278	90	0.6786
7	9.946	49	2.207	91	0.661
8	9.554	50	2.138	92	0.6439
9	9.18	51	2.071	93	0.6272
10	8.823	52	2.006	94	0.6111
11	8.482	53	1.944	95	0.5954
12	8.157	54	1.884	96	0.5802
13	7.846	55	1.826	97	0.5654
14	7.55	56	1.77	98	0.551
15	7.266	57	1.717	99	0.5371
16	6.991	58	1.665	100	0.5235

II. Temperature sensor resistance value table for T5 (°C – K)

Temperature ºC	Resistance (kΩ)	Temperature ºC	Resistance (kΩ)	Temperature ºC	Resistance (kΩ)
0	162.8960	34	34.0197	68	9.2774
1	154.8355	35	32.6330	69	8.9588
2	147.2203	36	31.3098	70	8.6526
3	140.0233	37	30.0471	71	8.3582
4	133.2193	38	28.8416	72	8.0753
5	126.7846	39	27.6906	73	7.8032
6	120.6973	40	26.5914	74	7.5414
7	114.9366	41	25.5413	75	7.2897
8	109.4834	42	24.5379	76	7.0475
9	104.3195	43	23.5789	77	6.8144
10	99.4280	44	22.6622	78	6.5901
11	94.7931	45	21.7857	79	6.3741
12	90.4000	46	20.9473	80	6.1662
13	86.2348	47	20.1454	81	5.9660
14	82.2845	48	19.3781	82	5.7732
15	78.5368	49	18.6438	83	5.5875
16	74.9803	50	17.9409	84	5.4086
17	71.6042	51	17.2679	85	5.2361
18	68.3985	52	16.6234	86	5.0700
19	65.3537	53	16.0061	87	4.9098
20	62.4608	54	15.4147	88	4.7554
21	59.7115	55	14.8480	89	4.6065
22	57.0980	56	14.3048	90	4.4629
23	54.6128	57	13.7840	91	4.3244
24	52.2490	58	13.2847	92	4.1908
25	50.0000	59	12.8059	93	4.0619
26	47.8597	60	12.3466	94	3.9376
27	45.8223	61	11.9059	95	3.8175
28	43.8823	62	11.4830	96	3.7017
29	42.0346	63	11.0771	97	3.5898
30	40.2743	64	10.6875	98	3.4818
31	38.5968	65	10.3133	99	3.3775
32	36.9979	66	9.9540	100	3.2768
33	35.4735	67	9.6089	101	3.1795