

APPROVAL DATA SHEET

Customer :

Application :

Product : NTC Thermostat

Model No. : N2-DL-R60-12K-3977

Drawing No. :

Rating :

Date : 12, Aug. 2011

Version : V.1.0

紘緯科技股份有限公司

Honest-Well Co., Ltd.

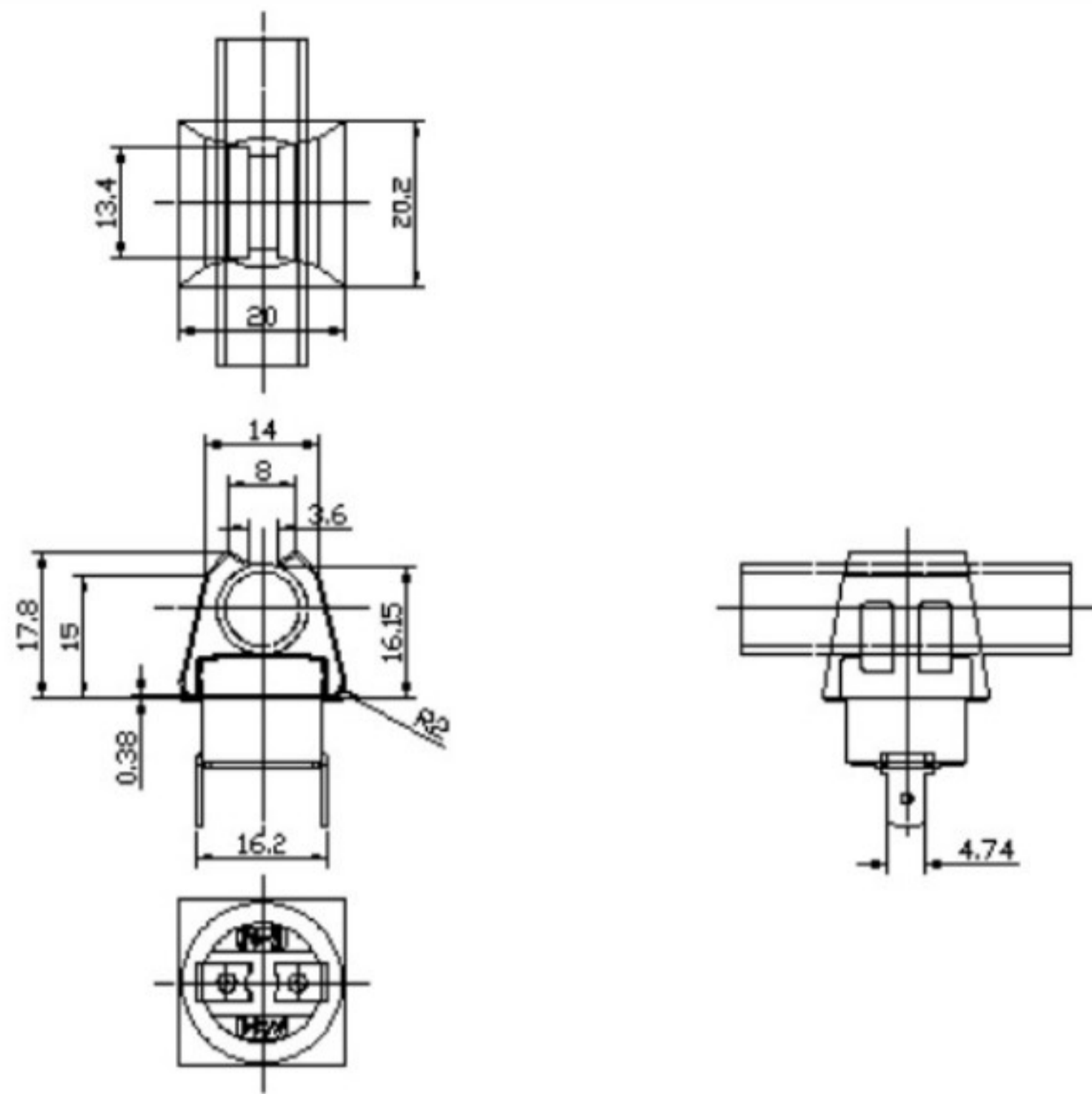
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出圖 >R/D	出圖 >生技	△4					單位	第 3 角法	機種	N2
		△3					製造		品名	N2-DL
出圖 >採購	出圖 >廠商	△2					製圖	== E001-00-11	圖號	
		△1					校圖		料號	
出圖 >IQC		版次	修 改 內 容	修改者	審核	修改日期	審核		材質	
Hw 紘 緯 科 技 股 份 有 限 公 司										

RT-TableR60=12k Ω \pm 1%B25/85=3977K \pm 1%

T(°C)	R -1%	Rnor (K Ω)	R +1%	T(°C)	R -1%	Rnor (K Ω)	R +1%
-20	416.4292	436.0229	456.4928	17	66.5726	68.4260	70.3239
-19	394.6721	413.0181	432.1737	18	63.5614	65.3003	67.0802
-18	374.0507	391.2261	409.1491	19	60.6862	62.3173	63.9859
-17	354.5060	370.5829	387.3503	20	57.9410	59.4706	61.0344
-16	335.9818	351.0283	366.7120	21	55.3199	56.7537	58.2189
-15	318.4247	332.5047	347.1725	22	52.8173	54.1610	55.5332
-14	301.7845	314.9579	328.6734	23	50.4278	51.6865	52.9713
-13	286.0132	298.3363	311.1592	24	48.1464	49.3250	50.5275
-12	271.0654	282.5913	294.5777	25	45.9681	47.0714	48.1964
-11	256.8984	267.6766	278.8792	26	44.1495	45.1907	46.2519
-10	243.4712	253.5486	264.0166	27	42.4027	43.3850	44.3857
-9	231.3659	240.8182	250.6316	28	40.7250	41.6515	42.5948
-8	219.8621	228.7265	237.9245	29	39.1137	39.9872	40.8761
-7	208.9298	217.2415	225.8612	30	37.5661	38.3893	39.2268
-6	198.5405	206.3326	214.4090	31	36.0796	36.8552	37.6438
-5	188.6676	195.9712	203.5372	32	34.6518	35.3824	36.1247
-4	179.2853	186.1297	193.2162	33	33.2806	33.9684	34.6669
-3	170.3692	176.7822	183.4182	34	31.9635	32.6108	33.2678
-2	161.8961	167.9036	174.1166	35	30.6986	31.3074	31.9252
-1	153.8442	159.4707	165.2865	36	29.4837	30.0562	30.6367
0	146.1925	151.4611	156.9038	37	28.3168	28.8548	29.4002
1	139.5839	144.5468	149.6712	38	27.1960	27.7015	28.2135
2	133.2739	137.9480	142.7716	39	26.1196	26.5943	27.0748
3	127.2488	131.6501	136.1899	40	25.0857	25.5311	25.9819
4	121.4959	125.6395	129.9113	41	24.0928	24.5106	24.9332
5	116.0030	119.9031	123.9220	42	23.1391	23.5308	23.9267
6	110.7581	114.4284	118.2085	43	22.2231	22.5901	22.9608
7	105.7502	109.2035	112.7583	44	21.3434	21.6870	22.0339
8	100.9685	104.2169	107.5591	45	20.4985	20.8200	21.1444
9	96.4029	99.4580	102.5996	46	19.6869	19.9875	20.2907
10	92.0435	94.9161	97.8684	47	18.9076	19.1885	19.4715
11	87.8812	90.5814	93.3553	48	18.1590	18.4212	18.6854
12	83.9069	86.4446	89.0502	49	17.4400	17.6846	17.9309
13	80.1122	82.4966	84.9435	50	16.7495	16.9775	17.2069
14	76.4890	78.7287	81.0260	51	16.1841	16.3987	16.6145
15	73.0296	75.1329	77.2891	52	15.6376	15.8395	16.0423
16	69.7264	71.7011	73.7243	53	15.1096	15.2993	15.4899

T(°C)	R -1%	Rnor (KΩ)	R +1%	T(°C)	R -1%	Rnor (KΩ)	R +1%
54	14.5993	14.7775	14.9564	97	3.4122	3.4895	3.5682
55	14.1064	14.2736	14.4414	98	3.3084	3.3843	3.4617
56	13.6300	13.7868	13.9440	99	3.2077	3.2824	3.3584
57	13.1697	13.3166	13.4638	100	3.1100	3.1834	3.2582
58	12.7250	12.8624	13.0001	101	3.0225	3.0946	3.1682
59	12.2952	12.4237	12.5523	102	2.9373	3.0083	3.0807
60	11.8800	12.0000	12.1200	103	2.8546	2.9245	2.9957
61	11.4707	11.5906	11.7106	104	2.7743	2.8430	2.9130
62	11.0757	11.1953	11.3151	105	2.6961	2.7636	2.8326
63	10.6941	10.8134	10.9329	106	2.6202	2.6866	2.7543
64	10.3257	10.4445	10.5636	107	2.5464	2.6117	2.6783
65	9.9700	10.0882	10.2068	108	2.4747	2.5389	2.6044
66	9.6266	9.7441	9.8620	109	2.4050	2.4680	2.5325
67	9.2949	9.4116	9.5289	110	2.3373	2.3992	2.4625
68	8.9747	9.0905	9.2070	111	2.2714	2.3322	2.3945
69	8.6655	8.7804	8.8960	112	2.2074	2.2672	2.3283
70	8.3670	8.4809	8.5955	113	2.1453	2.2040	2.2641
71	8.0786	8.1915	8.3050	114	2.0849	2.1426	2.2016
72	7.8003	7.9120	8.0245	115	2.0262	2.0828	2.1408
73	7.5316	7.6420	7.7534	116	1.9691	2.0246	2.0816
74	7.2720	7.3812	7.4913	117	1.9136	1.9682	2.0241
75	7.0215	7.1294	7.2383	118	1.8597	1.9133	1.9682
76	6.7794	6.8861	6.9937	119	1.8073	1.8599	1.9139
77	6.5458	6.6511	6.7574	120	1.7564	1.8080	1.8610
78	6.3203	6.4241	6.5290	121	1.7069	1.7576	1.8096
79	6.1025	6.2049	6.3084	122	1.6589	1.7086	1.7597
80	5.8922	5.9932	6.0953	123	1.6121	1.6609	1.7110
81	5.6891	5.7886	5.8893	124	1.5667	1.6146	1.6637
82	5.4930	5.5910	5.6902	125	1.5225	1.5695	1.6177
83	5.3037	5.4002	5.4980	126	1.4846	1.5308	1.5783
84	5.1209	5.2159	5.3121	127	1.4477	1.4931	1.5398
85	4.9444	5.0379	5.1326	128	1.4116	1.4563	1.5022
86	4.7939	4.8860	4.9794	129	1.3765	1.4204	1.4655
87	4.6480	4.7388	4.8309	130	1.3422	1.3854	1.4298
88	4.5066	4.5960	4.6867	131	1.3087	1.3511	1.3948
89	4.3694	4.4575	4.5469	132	1.2762	1.3179	1.3608
90	4.2365	4.3232	4.4112	133	1.2444	1.2854	1.3275
91	4.1076	4.1929	4.2796	134	1.2134	1.2537	1.2952
92	3.9826	4.0666	4.1519	135	1.1832	1.2228	1.2635
93	3.8613	3.9439	4.0280	136	1.1538	1.1926	1.2327
94	3.7438	3.8251	3.9078	137	1.1250	1.1632	1.2025
95	3.6298	3.7098	3.7911	138	1.0970	1.1345	1.1732
96	3.5194	3.5980	3.6780	139	1.0697	1.1066	1.1446

T(°C)	R -1%	Rnor (K Ω)	R +1%	T(°C)	R -1%	Rnor (K Ω)	R +1%
140	1.0430	1.0793	1.1166	184	0.3879	0.4054	0.4235
141	1.0170	1.0526	1.0893	185	0.3802	0.3974	0.4153
142	0.9917	1.0267	1.0627	186	0.3726	0.3895	0.4072
143	0.9670	1.0013	1.0368	187	0.3653	0.3820	0.3993
144	0.9429	0.9766	1.0114	188	0.3580	0.3744	0.3915
145	0.9194	0.9525	0.9867	189	0.3510	0.3671	0.3839
146	0.8965	0.9290	0.9626	190	0.3440	0.3599	0.3765
147	0.8742	0.9061	0.9391	191	0.3372	0.3528	0.3691
148	0.8524	0.8837	0.9162	192	0.3305	0.3459	0.3620
149	0.8312	0.8620	0.8938	193	0.3239	0.3391	0.3549
150	0.8105	0.8407	0.8720	194	0.3175	0.3324	0.3480
151	0.7926	0.8224	0.8532	195	0.3112	0.3259	0.3413
152	0.7751	0.8044	0.8347	196	0.3050	0.3195	0.3346
153	0.7581	0.7869	0.8168	197	0.2990	0.3132	0.3281
154	0.7415	0.7698	0.7992	198	0.2930	0.3070	0.3216
155	0.7251	0.7530	0.7819	199	0.2872	0.3010	0.3155
156	0.7091	0.7366	0.7650	200	0.2815	0.2951	0.3093
157	0.6936	0.7206	0.7486	201	0.2766	0.2900	0.3040
158	0.6783	0.7048	0.7323	202	0.2718	0.2850	0.2988
159	0.6634	0.6895	0.7166	203	0.2671	0.2801	0.2937
160	0.6488	0.6745	0.7011	204	0.2624	0.2752	0.2887
161	0.6345	0.6598	0.6860	205	0.2578	0.2705	0.2838
162	0.6205	0.6454	0.6712	206	0.2533	0.2658	0.2789
163	0.6069	0.6313	0.6567	207	0.2489	0.2612	0.2741
164	0.5935	0.6176	0.6425	208	0.2445	0.2567	0.2694
165	0.5804	0.6041	0.6286	209	0.2403	0.2522	0.2648
166	0.5677	0.5909	0.6151	210	0.2361	0.2479	0.2603
167	0.5551	0.5780	0.6018	211	0.2319	0.2436	0.2558
168	0.5429	0.5654	0.5888	212	0.2280	0.2395	0.2515
169	0.5310	0.5531	0.5761	213	0.2240	0.2353	0.2472
170	0.5193	0.5411	0.5637	214	0.2200	0.2312	0.2429
171	0.5079	0.5293	0.5515	215	0.2162	0.2273	0.2388
172	0.4966	0.5177	0.5396	216	0.2124	0.2233	0.2347
173	0.4857	0.5064	0.5279	217	0.2087	0.2195	0.2307
174	0.4750	0.4954	0.5165	218	0.2051	0.2157	0.2268
175	0.4646	0.4846	0.5054	219	0.2015	0.2120	0.2229
176	0.4553	0.4750	0.4955	220	0.1980	0.2083	0.2191
177	0.4464	0.4658	0.4859	221	0.1945	0.2046	0.2153
178	0.4375	0.4566	0.4764	222	0.1912	0.2012	0.2117
179	0.4288	0.4476	0.4672	223	0.1879	0.1977	0.2081
180	0.4203	0.4388	0.4581	224	0.1845	0.1943	0.2045
181	0.4120	0.4302	0.4492	225	0.1813	0.1909	0.2009
182	0.4038	0.4218	0.4405	226	0.1782	0.1876	0.1975
183	0.3958	0.4135	0.4320	227	0.1750	0.1843	0.1941

T(°C)	R -1%	Rnor (K Ω)	R +1%	T(°C)	R -1%	Rnor (K Ω)	R +1%
228	0.1720	0.1812	0.1908				
229	0.1690	0.1781	0.1876				
230	0.1661	0.1750	0.1844				
231	0.1631	0.1719	0.1812				
232	0.1604	0.1690	0.1782				
233	0.1575	0.1660	0.1750				
234	0.1547	0.1632	0.1720				
235	0.1521	0.1604	0.1691				
236	0.1494	0.1576	0.1662				
237	0.1468	0.1549	0.1634				
238	0.1442	0.1522	0.1606				
239	0.1417	0.1496	0.1578				
240	0.1392	0.1470	0.1551				
241	0.1368	0.1445	0.1525				
242	0.1344	0.1419	0.1499				
243	0.1321	0.1395	0.1474				
244	0.1298	0.1371	0.1448				
245	0.1275	0.1347	0.1423				
246	0.1253	0.1324	0.1399				
247	0.1231	0.1301	0.1375				
248	0.1210	0.1279	0.1351				
249	0.1189	0.1257	0.1328				
250	0.1168	0.1235	0.1306				