

## Specification For Approval

**Customer name :** \_\_\_\_\_

**Product name :** Platinum Resistance

**Customer PN :** \_\_\_\_\_

**MFG PN :** PT100B-2100L6D50T

MFG			Customer Confirmation		
Make	Check	Approval	Test	Check	Approval

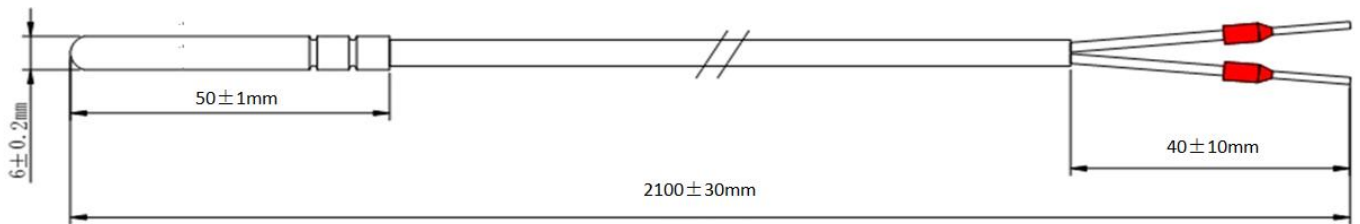
(Company name)

\_\_\_\_\_  
Confirm got the spec and accept as our company's warehouse accept standard.

Version	Revise content	Forwarder	Date
A/0	Just made	Cheng	2016-04-19

**1、 Overall Dimension**

(Unit: mm)


**2、 Material explanation**

NO	Material Name	Item/PN
2-1.	Housing	$\Phi 6.0 \times 50 \text{ mm}$ Stainless Steel (SUS304)
2-2.	Element	Platinum Resistance: PT100 (Class B)
2-3.	Coating	Epoxy Resin
2-4.	Lead Wire	PVC 80°C AWG24*2 (Red and White) OD5.2 (Gray)
2-5.	Terminal	<b>E0508 Tubular Insulated Terminals (Red)</b>

**3、 Electrical Performance:**

P/N	Nominal resistance at 0°C ( $\Omega$ )	Resistance Tolerance at 0°C	Tolerance grade	Withstand voltage test (Sec)	Insulation resistance ( $M\Omega$ )	Operating temp. range
Pt100	100	$\pm 0.30^\circ\text{C}$	B	Shell and wires between AC1750V for 2S, no breakdown, flashover phenomenon	Between the shell and wires DC500V, water > 100M $\Omega$ insulation resistance measurement	$-45^\circ\text{C} \sim 180^\circ\text{C}$

**4、Pt100 R-T Data:**

T (°C)	0	1	2	3	4	5	6	7	8	9
	Resistance(Ω)									
-50	80.31									
-40	84.27	83.87	83.48	83.08	82.69	82.29	81.89	81.50	81.10	80.70
-30	88.22	87.83	87.43	87.04	86.64	86.25	85.85	85.46	85.06	84.67
-20	92.16	91.77	91.37	90.98	90.59	90.19	89.80	89.40	89.01	88.62
-10	96.09	95.69	95.30	94.91	94.52	94.12	93.73	93.34	92.95	92.55
0	100.00	99.61	99.22	98.83	98.44	98.04	97.65	97.26	96.87	96.48
0	100.00	100.39	100.78	101.17	101.56	101.95	102.34	102.73	103.12	103.51
10	103.90	104.29	104.68	105.07	105.46	105.85	106.24	106.63	107.02	107.40
20	107.79	108.18	108.57	108.96	109.35	109.73	110.12	110.51	110.90	111.29
30	111.67	112.06	112.45	112.83	113.22	113.61	114.00	114.38	114.77	115.15
40	115.54	115.93	116.31	116.70	117.08	117.47	117.86	118.24	118.63	119.01
50	119.40	119.78	120.17	120.55	120.94	121.32	121.71	122.09	122.47	122.86
60	123.24	123.63	124.01	124.39	124.78	125.16	125.54	125.93	126.31	126.69
70	127.08	127.46	127.84	128.22	128.61	128.99	129.37	129.75	130.13	130.52
80	130.90	131.28	131.66	132.04	132.42	132.80	133.18	133.57	133.95	134.33
90	134.71	135.09	135.47	135.85	136.23	136.61	136.99	137.37	137.75	138.13
100	138.51	138.88	139.26	139.64	140.02	140.40	140.78	141.16	141.54	141.91
110	142.29	142.67	143.05	143.43	143.80	144.18	144.56	144.94	145.31	145.69
120	146.07	146.44	146.82	147.20	147.57	147.95	148.33	148.70	149.08	149.46
130	149.83	150.21	150.58	150.96	151.33	151.71	152.08	152.46	152.83	153.21
140	153.58	153.96	154.33	154.71	155.08	155.46	155.83	156.20	156.58	156.95
150	157.33	157.70	158.07	158.45	158.82	159.19	159.56	159.94	160.31	160.68
160	161.05	161.43	161.80	162.17	162.54	162.91	163.29	163.66	164.03	164.40
170	164.77	165.14	165.51	165.89	166.26	166.63	167.00	167.37	167.74	168.11
180	168.48	168.85	169.22	169.59	169.96	170.33	170.70	171.07	171.43	171.80
190	172.17	172.54	172.91	173.28	173.65	174.02	174.38	174.75	175.12	175.49
200	175.86	176.22	176.59	176.96	177.33	177.69	178.06	178.43	178.79	179.16