

# TSP SERIES TEMPERATURE SENSOR

## TSP-7205-102

### SPECIFICATIONS

TEMPERATURE SENSITIVE ELEMENT: Imported PT temperature sensitive element

WORKING RANGE: 0~50°C

INSTALLATION MODE: Binded mode

WIRING LENGTH: 300mm

PROTECTION CLASS: IP54

ROD MATERIAL: Brass

HOUSING AND DIMENSIONS PLEASE REFER TO Fig. 5 and Fig. 6



Fig. 5

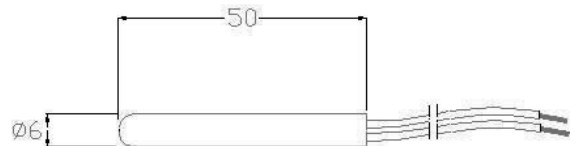


Fig. 6

### SHEET 1:

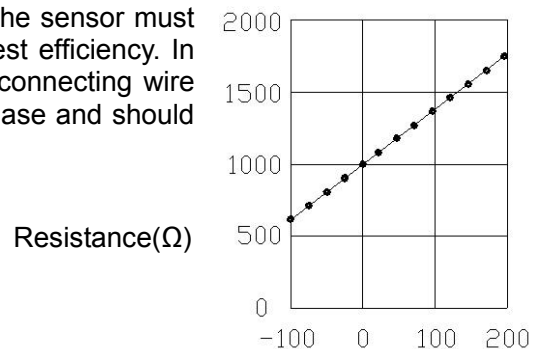
### RELATION BETWEEN TEMPERATURE AND RESISTANCE OF TSP SENSOR

TEMPERATURE °C	RESISTANCE Ω	TEMPERATURE °C	RESISTANCE Ω	TEMPERATURE °C	RESISTANCE Ω
0	1000	17	1063.75	34	1127.5
1	1003.75	18	1067.5	35	1131.25
2	1007.5	19	1071.25	36	1135
3	1011.25	20	1075	37	1138.75
4	1015	21	1078.75	38	1142.5
5	1018.75	22	1082.5	39	1146.25
6	1022.5	23	1086.25	40	1150
7	1026.25	24	1090	41	1153.75
8	1030	25	1093.75	42	1157.5
9	1033.75	26	1097.5	43	1161.25
10	1037.5	27	1101.25	44	1165
11	1041.25	28	1105	45	1168.75
12	1045	29	1108.75	46	1172.5
13	1048.75	30	1112.5	47	1176.25
14	1052.5	31	1116.25	48	1180
15	1056.25	32	1120	49	1183.75
16	1060	33	1123.75	50	1187.5

\*All the above data will be changed without prior notice.

### INSTALLATION INSTRUCTION

Because the sensitivity of this series sensor is very high, the sensor must be installed in the most suitable place so as to get the best efficiency. In order not to interfere the sensor, It is suggested that the connecting wire should be 2-conductor shield wire, laid in separate wire chase and should not exceed 50m.



TEMPERATURE (°C)  
SHEET 2