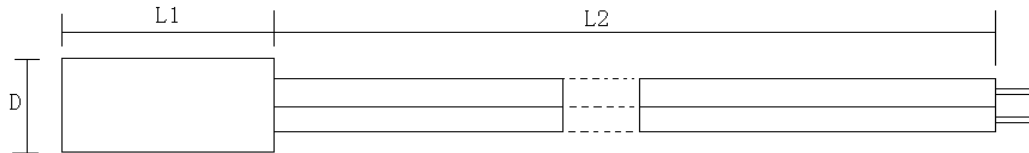


Product: PT1000 Temperature Sensor

Specification book

1、Shape and Dimension:



D	L1	L2
6mm	50mm	1500mm

2、Technical parameters:

- ① Nominal resistance R_0 : 1000 Ω
- ② Temperature coefficient: TCR=3850ppm/K
- ③ Temperature coefficient (Class A): -40 $^{\circ}\text{C}$ ~ +250 $^{\circ}\text{C}$
- ④ stability: R_0 change $\leq 0.06\%$ (500 $^{\circ}\text{C}$, 1000 hours later)
- ⑤ Anti vibration level: $\geq 40g$ acceleration (10 Hz ~ 2000Hz)
- ⑥ Impact resistance grade: $\geq 100g$ acceleration (波动 8.50ms 后)
- ⑦ Insulation resistance: >100M Ω , 20 $^{\circ}\text{C}$
>2M Ω , 500 $^{\circ}\text{C}$
- ⑧ Since the heat coefficient: 0.40K/mW (0 $^{\circ}\text{C}$)
- ⑨ Response latence: water@0.40m/s $t_{0.50}=0.05s$ $t_{0.90}=0.15s$
air@2.00m/s $t_{0.50}=3.00s$ $t_{0.90}=10.0s$
- ⑩ Measuring current: 0.30 mA ~ 1.00mA

3、Indexing table:

$$R(0^{\circ}\text{C}) = 1000.00\Omega$$

t / $^{\circ}\text{C}$	0	1	2	3	4	5	6	7	8	9
	R/ Ω									
-50	803.1	799.1	795.1	791.1	787.2	783.2	779.2	775.2	771.2	767.3
-40	842.7	838.7	834.8	830.8	826.9	822.9	818.9	815.0	811.0	807.0
-30	882.2	878.3	874.3	870.4	866.4	862.5	858.5	854.6	850.6	846.7
-20	921.6	917.7	913.7	909.8	905.9	901.9	898.0	894.0	890.1	886.2
-10	960.9	956.9	953.0	949.1	945.2	941.2	937.3	933.4	929.5	925.5
-0	1000.0	996.1	992.2	988.3	984.4	980.4	976.5	972.6	968.7	964.8
0	1000.0	1003.9	1007.8	1011.7	1015.6	1019.5	1023.4	1027.3	1031.2	1035.4
10	1039.0	1042.9	1046.8	1050.7	1054.6	1058.5	1063.24	1066.3	1070.2	1074.0
20	1077.9	1081.8	1085.7	1089.6	1093.5	1097.3	1101.2	1105.1	1109.0	1112.9
30	1116.7	1120.6	1124.5	1128.3	1132.2	1136.1	1140.0	1143.8	1147.7	1151.5
40	1155.4	1159.3	1163.1	1167.0	1170.8	1174.7	1178.6	1182.4	1186.3	1190.1
50	1194.0	1197.8	1201.7	1205.5	1209.4	1213.2	1217.1	1220.9	1224.7	1228.6
60	1232.4	1236.3	1240.1	1243.9	1247.8	1251.6	1255.4	1259.3	1263.1	1266.9
70	1270.8	1274.6	1278.4	1282.2	1286.1	1289.9	1293.7	1297.5	1301.3	1305.2
80	1309.0	1312.8	1316.6	1320.4	1324.2	1328.0	1331.8	1335.7	1339.5	1343.3
90	1347.1	1350.9	1354.7	1358.5	1362.3	1366.1	1369.9	1373.7	1377.5	1381.3
100	1385.1	1388.8	1392.6	1396.4	1400.2	1404.0	1407.8	1411.6	1415.4	1419.1
110	1422.9	1426.7	1430.5	1434.3	1438.0	1441.8	1445.6	1449.4	1453.1	1456.9
120	1460.7	1464.4	1468.2	1472.0	1475.7	1479.5	1483.3	1487.0	1490.8	1494.6
130	1498.3	1502.1	1505.8	1509.6	1513.3	1517.1	1520.8	1524.6	1528.3	1522.1
140	1535.8	1539.6	1543.3	1547.1	1550.8	1554.6	1558.3	1562.0	1565.8	1569.5
150	1573.3	1577.0	1580.7	1584.5	1588.2	1591.9	1595.6	1599.4	1603.1	1606.8
160	1610.5	1611.4	1618.0	1621.7	1625.4	1629.1	1632.9	1636.6	1640.3	1644.0
170	1647.7	1651.4	1655.1	1658.9	1662.6	1666.3	1670.0	1673.7	1677.4	1681.1
180	1684.8	1688.5	1692.2	1695.9	1699.6	1703.3	1707.0	1710.7	1714.3	1718.0
190	1721.7	1725.4	1729.1	1732.8	1736.5	1740.2	1743.8	1747.5	1751.2	1754.9
200	1758.6	1762.2	1765.9	1769.6	1773.3	1776.9	1780.6	1784.3	1797.9	1791.6
210	1795.3	1798.9	1802.6	1806.3	1809.9	1813.6	1817.2	1820.9	1824.6	1828.2
220	1831.9	1835.5	1839.2	1842.8	1846.5	1850.1	1853.8	1857.4	1861.1	1864.7
230	1868.4	1872.0	1875.6	1879.3	1882.9	1886.6	1890.2	1893.8	1897.5	1901.1
240	1904.7	1908.4	1912.0	1915.6	1919.2	1922.9	1926.5	1930.2	1933.7	1937.4
250	1941.0	1944.6	1948.2	1951.8	1955.5	1959.1	1962.7	1966.3	1969.9	1973.5
260	1977.1	1980.7	1984.3	1987.9	1991.8	1995.1	1998.7	2002.3	2005.9	2009.5
270	2013.1	2016.7	2020.3	2023.9	2027.5	2031.1	2034.7	2038.3	2041.9	2045.5
280	2049.0	2052.6	2056.2	2059.8	2063.4	2067.0	2070.5	2074.1	2077.7	2081.3
290	2084.8	2088.4	2092.0	2095.6	2099.1	2102.7	2106.3	2109.8	2113.4	2117.0
300	2120.5	2124.1	2127.6	2131.2	2134.8	2138.3	2141.9	2145.4	2149.0	2152.5