



Technical data sheet

Temperature sensor PT1000-1CH

FUNCTIONS:

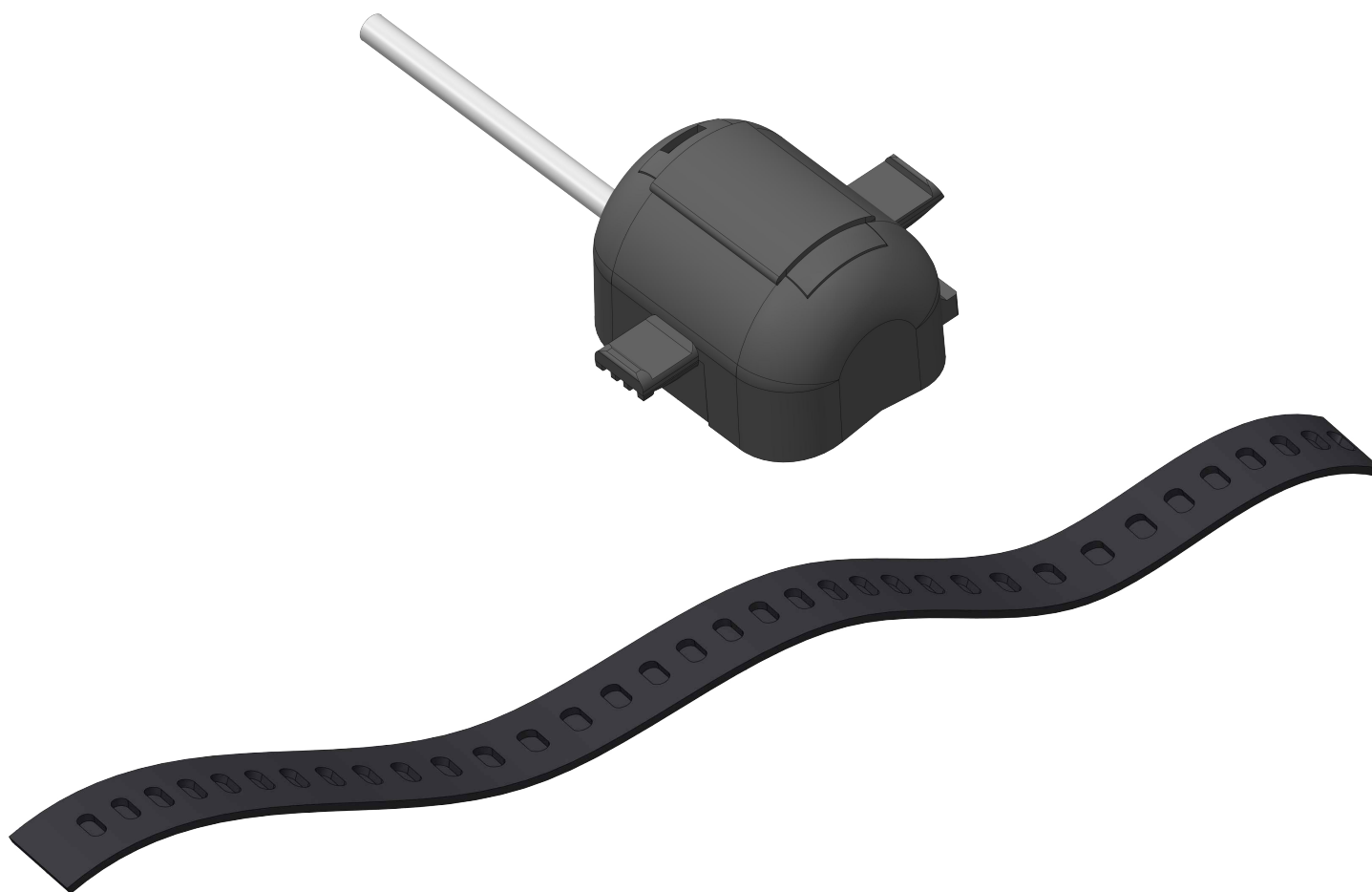
- Temperature measuring

FEATURES:

- Simple mounting
- Durable housing
- High measurement accuracy

TECHNICAL DATA:

- Housing material: Polyamide 66
- Belt material: Silicon
- Cup material: Copper
- Cable: 2x0,35 mm²
- PT1000:
 - Tolerance Class: F 0.15 (A)
 - Measuring Current: 0.1 to 0.3 mA
 - Time constant: approx. 80 s, (with thermal paste the time constant can be significantly reduced)
- Outside pipe diameter: 15 - 50 mm
- Operating temperature: from -25 to 85°C



Note: The Product Temperature sensor PT1000-1CH includes an independent product Temperature sensor PT1000-1C (without plastic case).



DIMENSIONS AND MOUNTING INSTRUCTIONS

1. Secure the strap:

Wrap the fastening strap tightly around the pipe.

2. Attach the sensor:

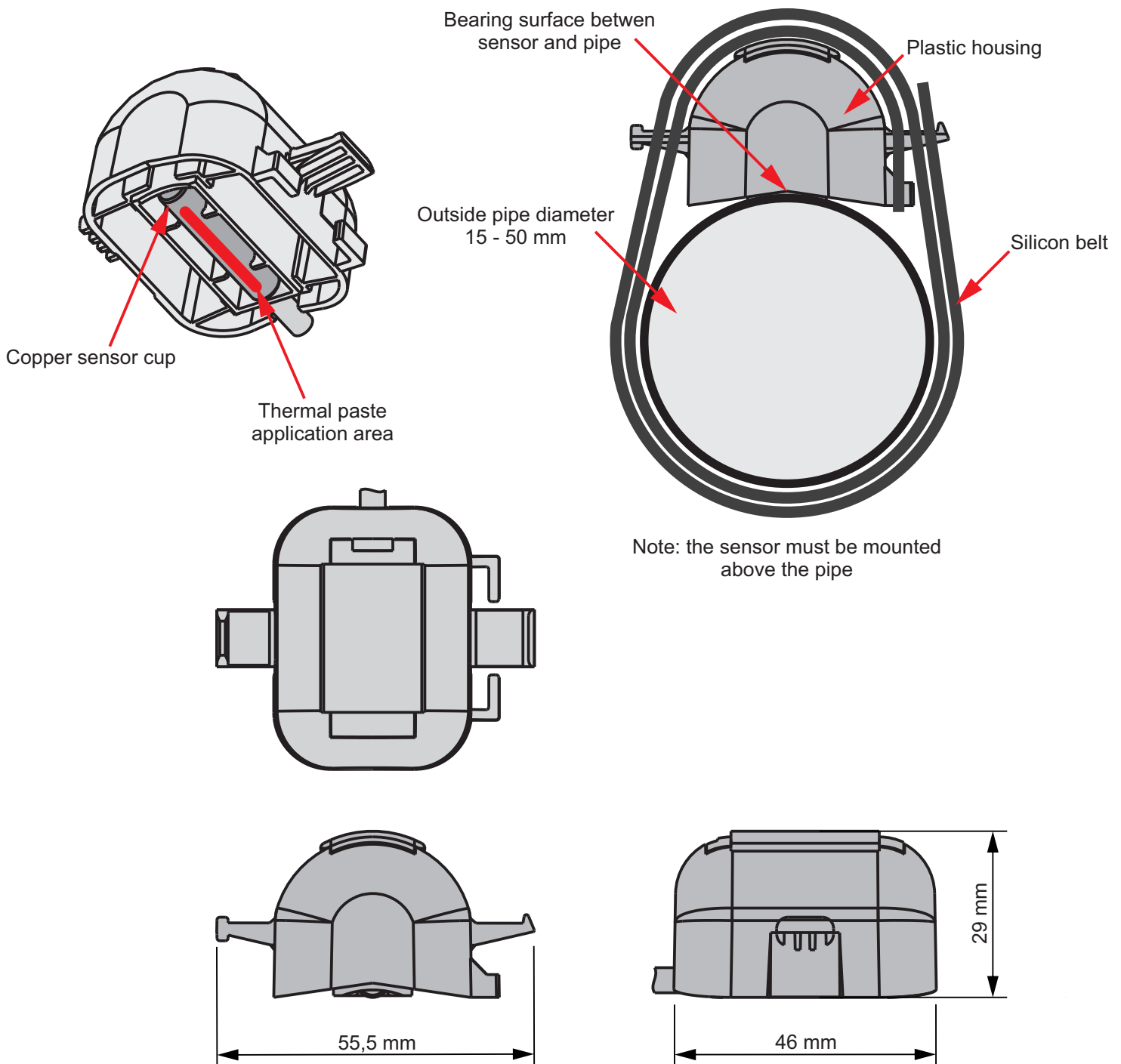
Thread the end of the strap through the loop on the surface sensor.

3. Tighten and secure:

Pull the strap tightly around the pipe and slip the tab on the sensor through the hole on the strap.

4. Verify placement:

Ensure that the surface sensor is securely attached and not loose.





SENSOR RESISTANCE VALUES FOR PT1000 ELEMENT

Resistance related to temperature for platinum element PT-1000. Resistance in Ohms.

°C	0,0	-1,0	-2,0	-3,0	-4,0	-5,0	-6,0	-7,0	-8,0	-9,0
-50,0	803,1									
-40,0	842,9	838,8	834,8	830,8	826,9	822,9	818,9	815,0	811,0	807,0
-30,0	822,2	878,3	874,3	870,4	866,4	862,5	858,5	854,6	850,6	846,7
-20,0	921,6	917,7	913,7	909,8	905,9	901,9	898,0	894,0	890,1	886,2
-10,0	960,9	956,9	953,0	949,1	945,2	941,2	937,3	933,4	929,5	925,5
0,0	1000,0	996,1	992,2	988,3	984,4	980,4	976,5	972,6	968,7	964,8

°C	0,0	1,0	2,0	3,0	4,0	5,0	6,0	7,0	8,0	9,0
0,0	1000,0	1003,9	1007,8	1011,7	1015,6	1019,5	1023,4	1027,3	1031,2	1035,1
10,0	1039,0	1042,9	1046,8	1050,7	1054,6	1058,5	1062,4	1066,3	1070,2	1074,0
20,0	1077,9	1081,8	1085,7	1089,6	1093,5	1097,3	1101,2	1105,1	1109,2	1112,8
30,0	1116,7	1120,6	1124,5	1128,3	1132,2	1136,1	1139,9	1143,8	1147,7	1151,5
40,0	1155,4	1159,3	1163,1	1167,0	1170,8	1174,7	1178,5	1182,4	1186,2	1190,1
50,0	1194,0	1197,8	1201,6	1205,5	1209,3	1213,2	1217,0	1220,9	1224,7	1228,6
60,0	1232,4	1236,2	1240,1	1243,9	1247,7	1251,6	1255,4	1259,2	1263,1	1266,9
70,0	1270,7	1274,5	1278,4	1282,2	1286,0	1289,8	1293,7	1297,5	1301,3	1305,1
80,0	1308,9	1312,7	1316,6	1320,4	1324,2	1328,0	1331,8	1335,6	1339,4	1343,2
90,0	1347,0	1350,8	1354,6	1358,4	1362,2	1366,0	1369,8	1373,6	1377,4	1381,2
100,0	1385,0	1388,8	1392,6	1396,4	1400,2	1403,9	1407,7	1411,5	1415,3	1419,1
110,0	1422,9	1426,6	1430,4	1434,2	1438,0	1441,7	1445,5	1449,3	1453,1	1456,8