

STRAP-ON TEMPERATURE SENSOR

TSS-Series

FEATURES

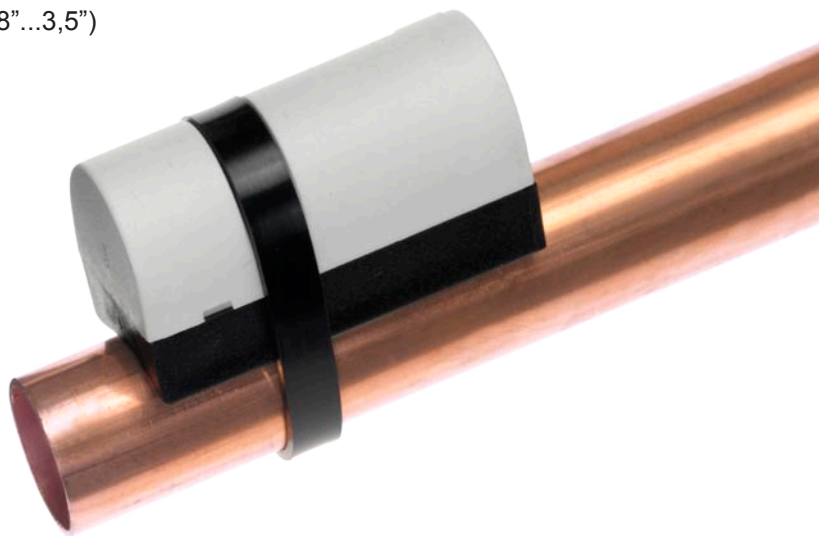
- Pipe mounted
- Small design housing
- Universal pipe size Ø15...90mm (Ø5/8"...3,5")
- Spring loaded contact
- Complete mounting set
- Splash proof
- UV resistant

OPTIONS

- Extension cable
- Custom packaging

APPLICATIONS

- HVAC
- Building controls
- Industrial applications
- Micro CHPs
- Horticulture



GENERAL INFORMATION

The Tasseron strap-on sensor is developed for indirect measurement of the medium (water) by strapping it onto a pipe. With the included tie-wrap it can be mounted onto any pipe between 15 and 90 mm (Ø5/8"...3,5") diameter. This makes it ideal for various applications or various pipe diameters.

The sensor contact point is spring loaded to guarantee a good thermal contact. This results in a quick and accurate measurement, even over a long period of time.

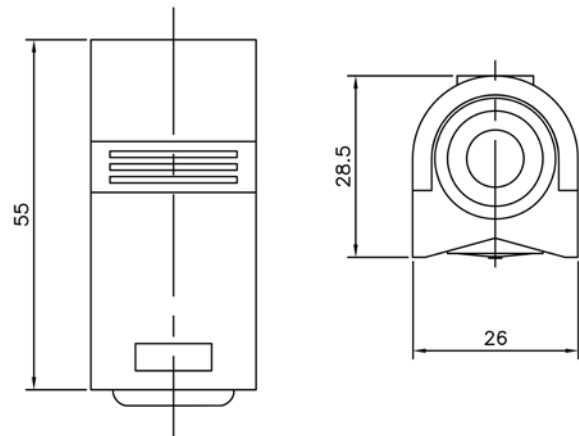
Installation costs are saved by using this sensor as it is designed for quick connection. It comes in a complete set for mounting onto the pipe. The small box includes: the sensor with grommet for cable sealing, tie-wrap and a mounting instruction.

GENERAL TECHNICAL INFORMATION

Characteristic	Parameter	Value	Unit
Operating temperature	T_{op}	-40...60	°C
Resistance tolerance NTC (@60°C)	ΔR_R	±3	%
Insulation resistance	R_{ins}	>200	MΩ
Test Voltage (t = 1s)	V_{test}	2000	V_{AC}

MEASUREMENTS & MATERIALS

Housing size (l x w x h) : 55 x 28,5 x 26 mm
 Housing base material : PC Black
 Cap material : PC White
 Electrical connection : 2 way 0,3 - 1,5 mm²
 screwless connector



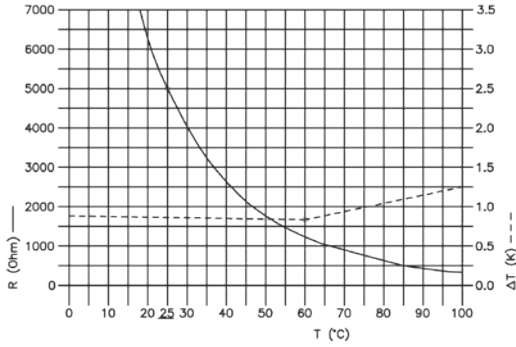
IMAGES



AVAILABLE SENSOR VALUES

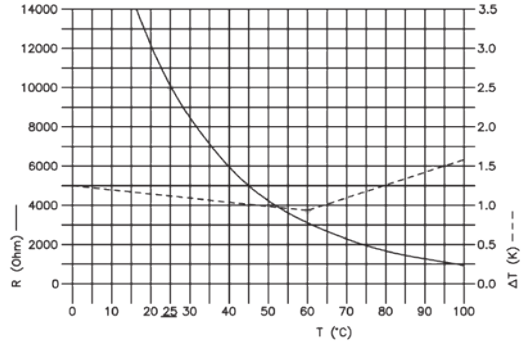
NTC 5K 3%@60°C B3977

T(°C)	R(Ohm)
0	16312
5	12691
10	9948
15	7856
20	6246
25	5000
30	4028
35	3285
40	2862
45	2183
50	1799
55	1491
60	1242
65	1039
70	874
75	738
80	626
85	533
90	456
95	391
100	337



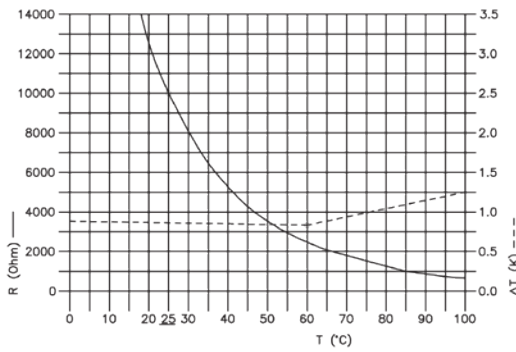
NTC 10K 3%@60°C B3435

T(°C)	Rn(Ohm)
0	27700
5	22290
10	18070
15	14740
20	12110
25	10000
30	8300
35	6924
40	5810
45	4896
50	4147
55	3525
60	3011
65	2582
70	2224
75	1922
80	1668
85	1451
90	1267
95	1110
100	975



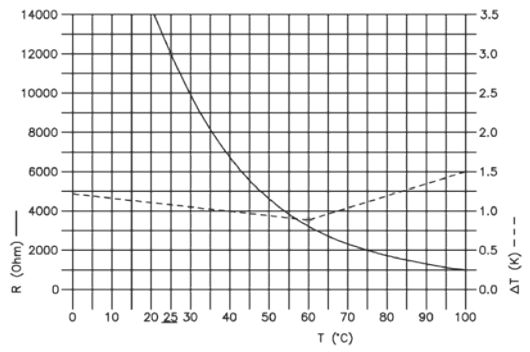
NTC 10K 3%@60°C B3977

T(°C)	Rn(Ohm)
0	32624
5	25381
10	19897
15	15711
20	12493
25	10000
30	8056
35	6530
40	5324
45	4365
50	3599
55	2982
60	2483
65	2079
70	1748
75	1476
80	1252
85	1066
90	912
95	782
100	674



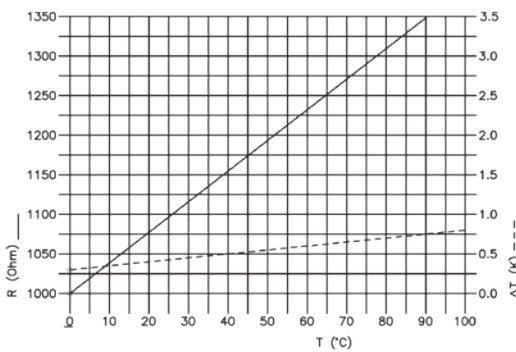
NTC 12K 3%@60°C B3740

T(°C)	R(Ohm)
0	36033
5	28562
10	22799
15	18308
20	14796
25	12000
30	9801
35	8060
40	6663
45	5531
50	4615
55	3862
60	3248
65	2749
70	2336
75	1993
80	1707
85	1466
90	1264
95	1095
100	951



Pt1000 (IEC751, class B)

T(°C)	R(Ohm)
0	1000
5	1020
10	1039
15	1058
20	1078
25	1097
30	1117
35	1136
40	1155
45	1175
50	1194
55	1213
60	1232
65	1252
70	1271
75	1290
80	1309
85	1328
90	1347
95	1366
100	1385



ORDERING INFORMATION

Art. no.: TSS x 11 x

Strap-on sensor

Standard housing

Sequenced no. |

Measuring element options
4 = Pt1000 (IEC751, class B)
5 = NTC 5K 3% B3977
A = NTC 10K 3% B3977
B = NTC 12K 3% B3740
D = NTC 10K 3% B3435

Other measuring elements or housing colors on request.

Packing quantity and MOQ: 125 pieces