

STRAP-ON TEMPERATURE SENSOR

TSS-Series

FEATURES

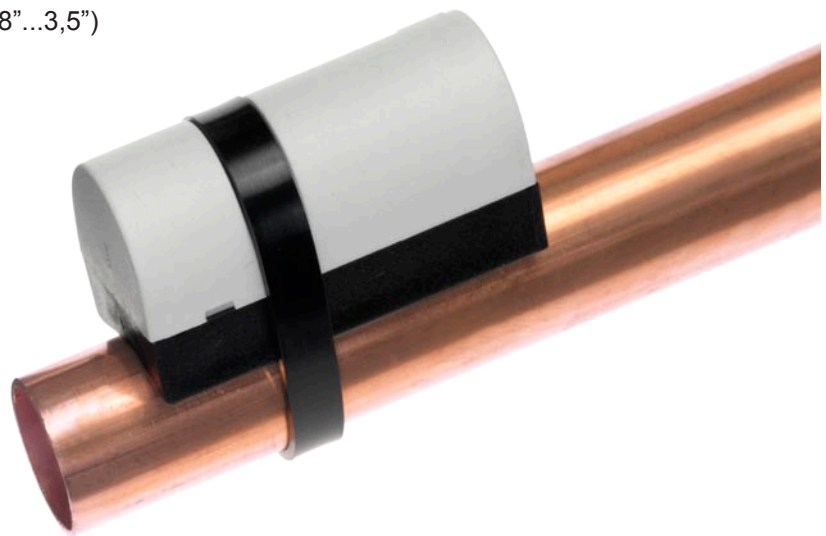
- Pipe mounted
- Small design housing
- Universal pipe size Ø15...90mm (Ø5/8"...3,5")
- Spring loaded contact
- Complete mounting set
- Splash proof
- UV resistant

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.

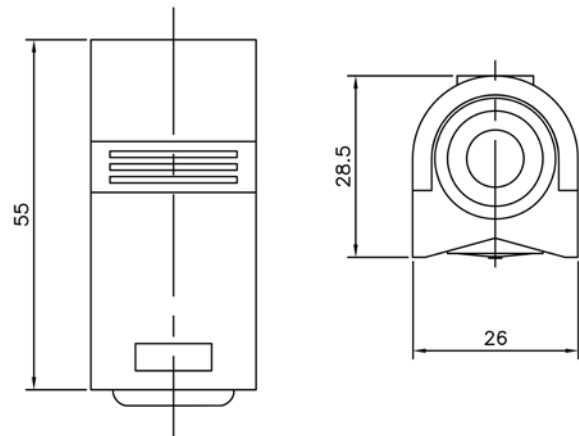
Installation costs are saved by using this sensor as it is designed for quick connection. It comes in a complete set for mounting onto the pipe. The small box includes: the sensor with grommet for cable sealing, tie-wrap and a mounting instruction.

GENERAL TECHNICAL INFORMATION

| Characteristic | Parameter | Value | Unit |
|----------------------------------|--------------|-----------|----------|
| Operating temperature | T_{op} | -40...105 | °C |
| Resistance tolerance NTC (@60°C) | ΔR_R | ±3 | % |
| Insulation resistance | R_{ins} | >200 | MΩ |
| Test Voltage (t = 1s) | V_{test} | 2000 | V_{AC} |

DIMENSIONS & MATERIALS

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



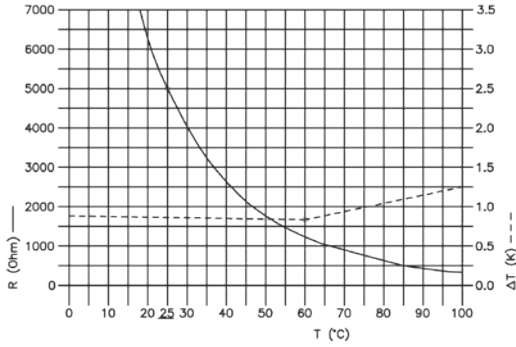
IMAGES



AVAILABLE SENSOR VALUES

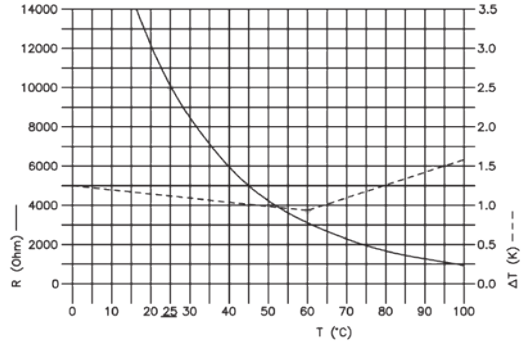
NTC 5K 3%@60°C B3977

| 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 |



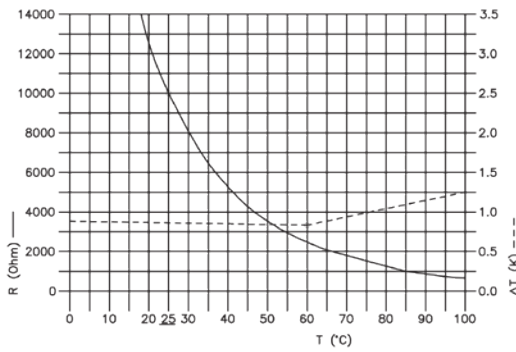
NTC 10K 3%@60°C B3435

| 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 |



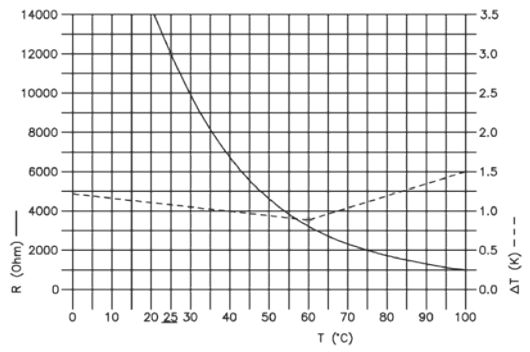
NTC 10K 3%@60°C B3977

| 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 |



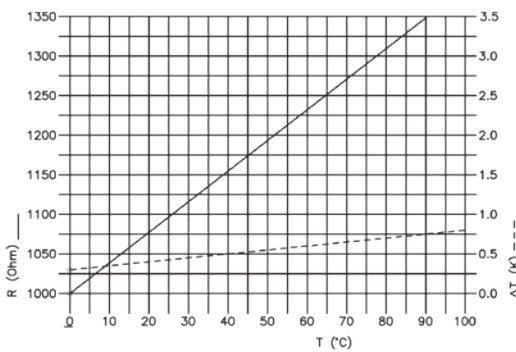
NTC 12K 3%@60°C B3740

| 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

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