

Strap-on air temperature sensor

STS



Features:

- Straps for 12..50mm pipe
- -40..+105 °C temperature range
- NTC 10k sensing element
- Complete with 5m cable
- Industrial use
- Quick and easy installation

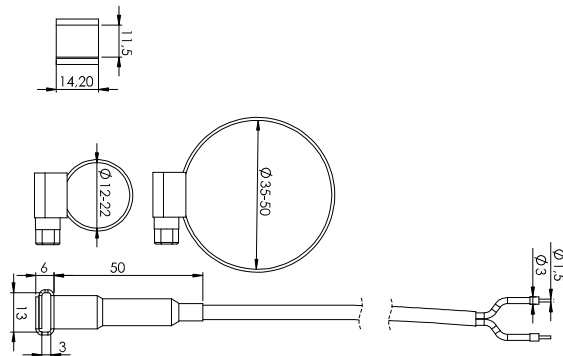
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STS sensor is intended for measuring the media temperature inside the pipe. Sensor is NTC element based and provide resistance value dependent on the air temperature.

Installation

Install the sensor on the pipe by using the strap, screwing it tightly for good thermal contact. Additional thermal insulation around the sensor and cable is advisable for more precise media temperature measurement.

Dimensions



Technical data

Measuring element*	NTC 10k at 25 °C Beta (25/85) 3435
Measuring range	-40..+105 °C
Accuracy	±1%
Protection class	IP67
Cable*	5m, D=4.8mm
Connections*	End sleeves, 0.5mm ² /8mm

* Other options on request

Temperature-resistance values

Temperature, °C	Resistance, kΩ
-40	204.100
-35	154.250
-30	117.680
-25	90.580
-20	70.320
-15	55.030
-10	43.400
-5	34.480
0	27.600
5	22.240
10	18.043
15	14.732
20	12.102
25	10.000
30	8.309
35	6.941
40	5.827
45	4.916
50	4.165
55	3.544
60	3.028
65	2.596
70	2.234
75	1.929
80	1.671
85	1.451
90	1.264
95	1.104
100	0.967
105	0.849