

Datasheet NTC Thermistor high precision conduit mounting

Description

High precision NTC thermistor range of single-insulated, fully encapsulated sensor offering IP67 waterproof protection with stainless steel casing. The sensor tip is molded directly onto the cable ensuring the interface is completely sealed.

The AT-11 is a go-to sensor with its small sensor tip responding quickly to temperature change thanks to exposing an epoxy covering at the end. The AT-11 offers industry standard resistance values such as the 10k Ω /B3435K (103AT-11).

Features

- IP67 protection waterproof
- Stainless steel casing with an epoxy tip for high sensing
- Absolute integrity against moisture ingress
- Di-electric strength 3.75kVAC

Key Applications

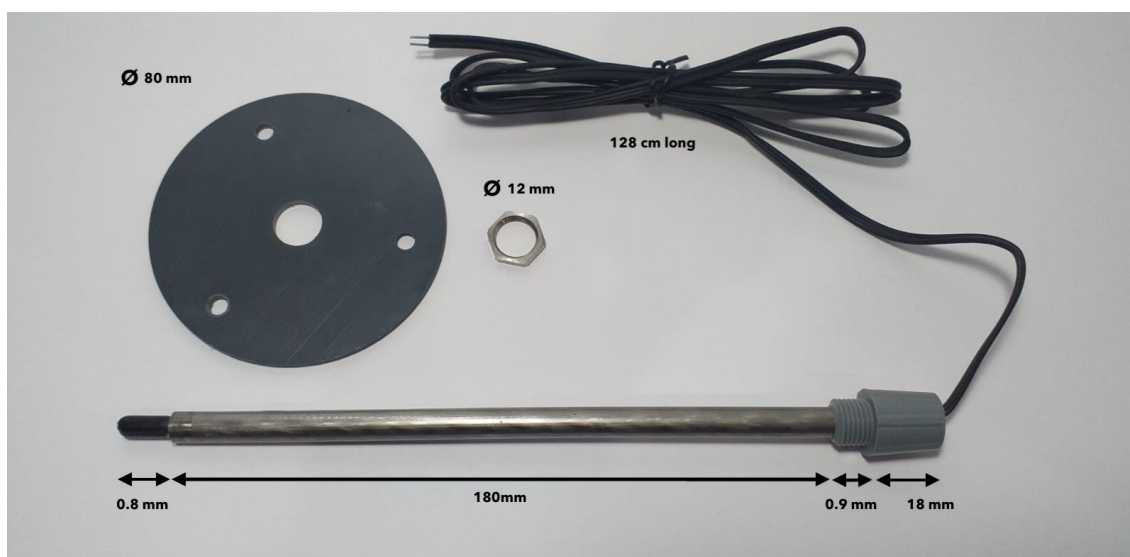
- General temperature sensing
- Perfect mounting for pipes and conduit
- Heat pumps
- Domestic heat recovery
- Battery stack monitoring
- Refrigeration controls
- Underfloor heating

Specifications

- Tolerance: 1 %
- Series: 103AT-11
- Resistance (R25): 10 k Ω
- Minimum Operating Temperature: - 50 C
- Maximum Operating Temperature: + 110 C

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Dimensions



RoHS

RoHS Our sensors are compliant to the Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Changelog

- **March 2017:** First version of the document
- **May 2018:** Added dimensions picture
- **January 2020:** Added key applications

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Resistance temperature

Temperature (°C)	kΩ
-50	329.5
-30	111.3
-20	67.77
-10	42.47
0	27.28
10	17.96
20	12.09
25	10.00
30	8.313
40	5.827
50	4.160
60	3.020
70	2.228
80	1.668
85	1.451
90	1.266
100	0.9731
110	0.7576

1.0 Resistance temperature table