

STI

Immersion temperature sensor with housing and well



Immersion sensor for temperature measurement in heating- or cooling applications. Supplied with a nickel coated brass well. Available in different lengths.

- Sealed housing with IP65
- Easy access to connection
- Replaceable cable gland

Application

The immersion sensor measures the temperature in water pipes. It can be used for a wide range of applications since there are models with different sensor elements and different insertion lengths.

The sensor is designed so that the seal remains in the cover at all times and the cable gland is replaceable.

Function

The immersion sensor is suitable for all environments.

Since the well is installed using a threaded connection it closes tightly against the pipe wall which makes it possible to exchange sensor without any water leakage.

Installation

The sensor is already provided with the well.

The user should mount the well onto the pipe at the desired temperature measurement location, then insert the sensor into the well and secure it in place using the locking screw.

The terminal block for connecting the analog input to a controller is located under the cover. The cover is easily removed from the base with a twist.

MAIN OFFICE BRESSANONE

I-39042 Bressanone (BZ) tel: +39 0472 830626
via Julius-Durst-Str. 50 fax: +39 0472 831840
VAT No. IT02748450216 www.industrietechnik.it

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Technical data

| | |
|------------------------------|--|
| Protection class | IP65 |
| Time constant | 18 s |
| Measuring range, temperature | -20...+120 °C |
| Cable gland | M16 |
| Connection, well | R1/2" |
| Diameter, well | 7 mm (8 mm for versions in AISI 304/316) |
| Pressure rating | PN25 |
| Dimensions, external (WxHxD) | 78 x 156 x 104 mm |
| Weight (incl. packaging) | 0.20 kg |



This product carries the CE-mark. More information is available at www.industrietechnik.it.

Material

| | |
|-------------------|---------------------------|
| Material, housing | Polycarbonate (PC) |
| Material, base | Polycarbonate (PC) |
| Material, probe | Stainless steel, AISI 304 |
| Material, well | Nichel coated Brass/Cu |

Models

| Article | Insertion length | Sensor element | Nominal resistance | Equivalent |
|---------------------------------|------------------|----------------------|--------------------|---|
| STI-PT100-Y | 90 mm | PT100 (DIN class B) | 100 Ω (0°C) | - |
| STI-PT1000-50-Y ^{1 2} | 50 mm | PT1000 (DIN class B) | 1000 Ω (0°C) | - |
| STI-PT1000-Y | 90 mm | PT1000 (DIN class B) | 1000 Ω (0°C) | - |
| STI-PT1000-120-Y ^{1 2} | 120 mm | PT1000 (DIN class B) | 1000 Ω (0°C) | - |
| STI-PT1000-170-Y ^{1 2} | 170 mm | PT1000 (DIN class B) | 1000 Ω (0°C) | - |
| STI-PT1000-310-Y ^{1 2} | 310 mm | PT1000 (DIN class B) | 1000 Ω (0°C) | - |
| STI-NTC1.8-Y | 90 mm | NTC 1.8 | 1800 Ω (25°C) | TAC |
| STI-NTC2.2-Y | 90 mm | NTC 2.2 | 2252 Ω (25°C) | Johnson Controls |
| STI-NTC10-01-Y | 90 mm | NTC 10 | 10 kΩ (25 °C) | Aquatrol - Johnson Controls - Satchwell - Trend - Cylon - Honeywell - Distech |
| STI-NTC10-02-Y | 90 mm | NTC 10 | 10 kΩ (25 °C) | Carel - Evco - Eliwell - AB Industrietechnik |
| STI-NTC10-03-Y | 90 mm | NTC 10 | 10 kΩ (25 °C) | Andover - Delta Controls - Siebe - York |
| STI-NTC20-Y | 90 mm | NTC 20 | 20 kΩ (25°C) | Honeywell |
| STI-NI1000-01-Y | 90 mm | Ni1000 | 1000 Ω (0 °C) | Siemens - Landis & Staefa |
| STI-NI1000-02-Y | 90 mm | Ni1000 | 1000 Ω (0 °C) | Sauter |

1. Available upon request. Please contact sales representative.

2. Please note that the provider well is made of AISI 304 stainless steel. Nichel coated Brass/Cu well is not available for these models.

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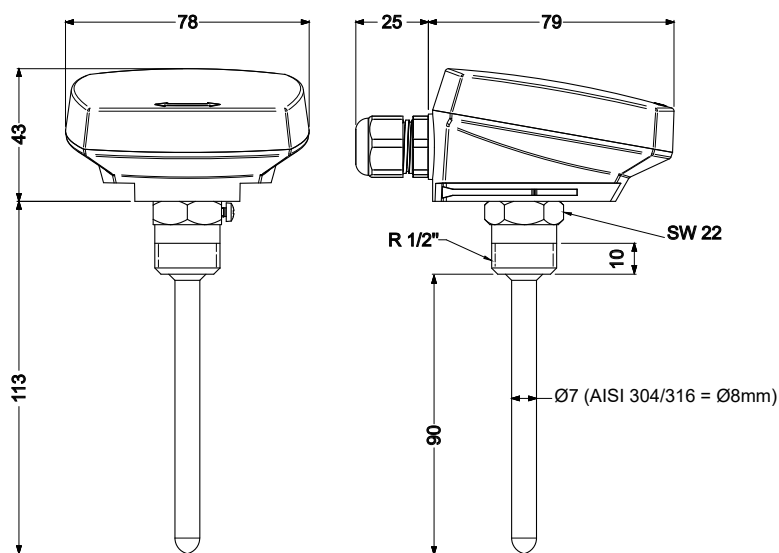
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Accessories

| Article | Description | Insertion length | Material |
|----------|----------------|------------------|--|
| DR-50S | Well for probe | 50 mm | Stainless steel, EU1.4301(AISI 304) |
| DR-90S | Well for probe | 90 mm | Stainless steel, EU1.4301(AISI 304) |
| DR-120S | Well for probe | 120 mm | Stainless steel, EU1.4301(AISI 304) |
| DR-170S | Well for probe | 170 mm | Stainless steel, EU1.4301(AISI 304) |
| DR-310S | Well for probe | 310 mm | Stainless steel, EU1.4301(AISI 304) |
| DR-50WA | Well for probe | 50 mm | Acid-proof stainless steel, EU1.4401(AISI 316) |
| DR-90WA | Well for probe | 90 mm | Acid-proof stainless steel, EU1.4401(AISI 316) |
| DR-120WA | Well for probe | 120 mm | Acid-proof stainless steel, EU1.4401(AISI 316) |
| DR-170WA | Well for probe | 170 mm | Acid-proof stainless steel, EU1.4401(AISI 316) |
| DR-310WA | Well for probe | 310 mm | Acid-proof stainless steel, EU1.4401(AISI 316) |

Dimensions



[mm]

Documentation

All documentation can be downloaded from www.industrietechnik.it.

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