

TG-IH3/...

Immersion sensor with housing



Immersion sensor for temperature measurement in heating- or cooling applications. 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. Needs to be installed in a well.

Function

The immersion sensor is suitable for all environments.

Installation

A well is not delivered with the product. The user needs to mount a well on the pipe where temperature are wished to be measured, and then assemble the sensor in the well and secure the sensor with 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.

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

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Technical data

| | |
|-------------------------------------|-------------------|
| Protection class | IP65 |
| Time constant | 18 s |
| Measuring range, temperature | -20...+120 °C |
| Diameter, probe | 5 mm |
| Pressure rating | PN25 |
| Cable gland | M16 |
| Dimensions, external (WxHxD) | 78 x 156 x 104 mm |
| Weight (incl. packaging) | 0.17 kg |



This product carries the CE-mark. More information is available at www.regincontrols.com.

Material

| | |
|--------------------------|-----------------------------------|
| Material, housing | Polycarbonate (PC) |
| Material, base | Polycarbonate (PC) |
| Material, probe | Stainless steel, EU1.4301(SUS304) |

Models

| Article | Sensor element | Nominal resistance | Insertion length | Equivalent |
|---------------------|----------------------|--------------------|------------------|---|
| TG-IH3/PT100-90 | PT100 (DIN class B) | 100 Ω (0°C) | 90 mm | - |
| TG-IH3/PT1000-50 | PT1000 (DIN class B) | 1000 Ω (0°C) | 50 mm | - |
| TG-IH3/PT1000-90 | PT1000 (DIN class B) | 1000 Ω (0°C) | 90 mm | - |
| TG-IH3/PT1000-120 | PT1000 (DIN class B) | 1000 Ω (0°C) | 120 mm | - |
| TG-IH3/PT1000-170 | PT1000 (DIN class B) | 1000 Ω (0°C) | 170 mm | - |
| TG-IH3/PT1000-310 | PT1000 (DIN class B) | 1000 Ω (0°C) | 310 mm | - |
| TG-IH3/NTC20-90 | NTC 20 | 20 kΩ (25°C) | 90 mm | Honeywell |
| TG-IH3/Ni1000-01-90 | Ni1000 | 1000 Ω (0 °C) | 90 mm | Siemens - Landis & Staefa |
| TG-IH3/NTC10-01-90 | NTC10-01 | 10 kΩ (25°C) | 90 mm | Aquatrol - Johnson Controls - Satchwell - Trend - Cylon - Honeywell - Distech |

Accessories

| Article | Description | Insertion length | Material |
|--------------|---|------------------|-----------------------------------|
| TG-DHW3-CLIP | Clip for mounting a TG-IH3 on a TG-DHW well | - | Stainless steel, EU1.4301(SUS304) |
| DR-50S | Well for probe | 50 mm | Stainless steel, EU1.4301(SUS304) |
| DR-90S | Well for probe | 90 mm | Stainless steel, EU1.4301(SUS304) |
| DR-120S | Well for probe | 120 mm | Stainless steel, EU1.4301(SUS304) |
| DR-170S | Well for probe | 170 mm | Stainless steel, EU1.4301(SUS304) |
| DR-310S | Well for probe | 310 mm | Stainless steel, EU1.4301(SUS304) |

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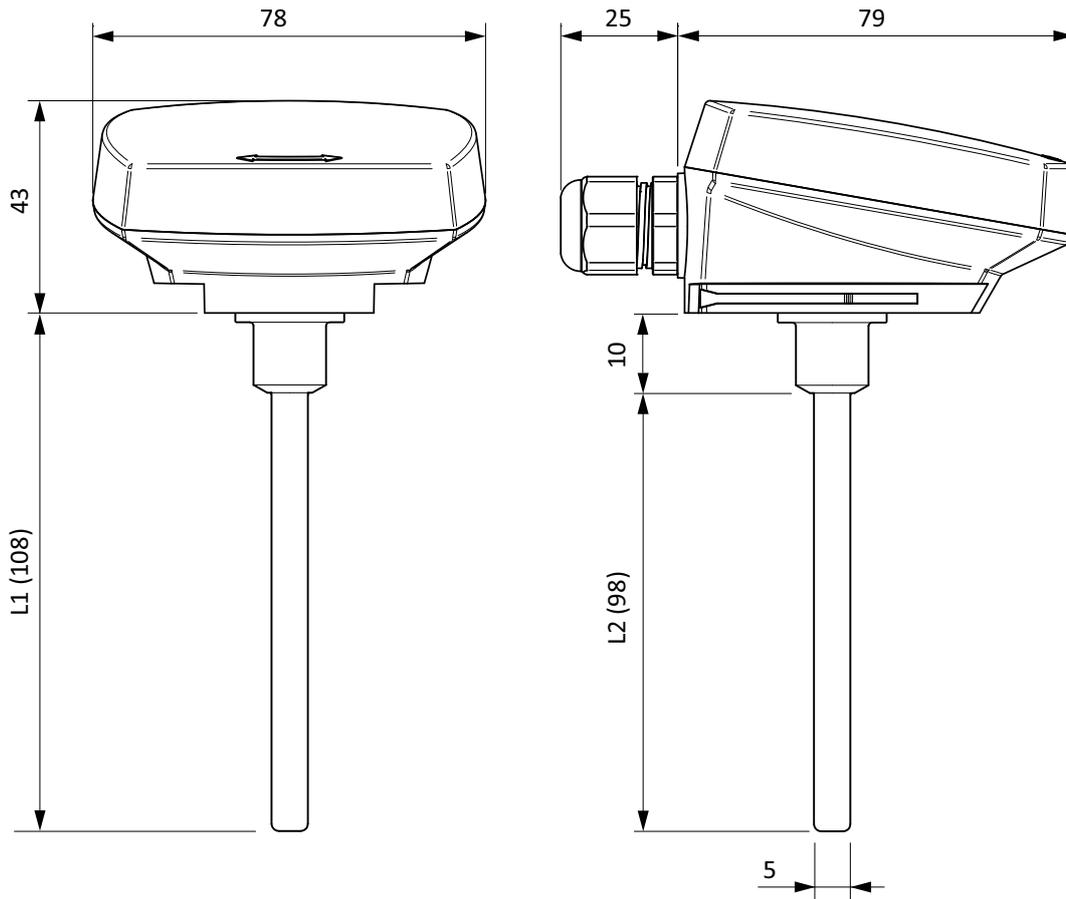
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| Article | Description | Insertion length | Material |
|----------|----------------|------------------|--|
| DR-50WA | Well for probe | 50 mm | Acid-proof stainless steel, EU1.4401(SUS316) |
| DR-90WA | Well for probe | 90 mm | Acid-proof stainless steel, EU1.4401(SUS316) |
| DR-120WA | Well for probe | 120 mm | Acid-proof stainless steel, EU1.4401(SUS316) |
| DR-170WA | Well for probe | 170 mm | Acid-proof stainless steel, EU1.4401(SUS316) |
| DR-310WA | Well for probe | 310 mm | Acid-proof stainless steel, EU1.4401(SUS316) |

Dimensions



[mm]

L1 = 108, for 90 mm insertion length

L2 = 98, for 90 mm insertion length

Documentation

All documentation can be downloaded from www.regincontrols.com.