

Temperature monitor TW

For monitoring temperatures in heating water systems, warm water systems and other applications in heating, ventilation and air conditioning systems. When the setpoint temperature is reached, the 1-pin changeover contact (SPDT) is switched. Four different mounting types are possible.

- Pipe contact mounting
- Thermowell mounting
- Wall mounting with probe in flange
- Wall mounting with probe in thermowell

Type Overview

Technical data



01HT-101CA





| | Туре | Output signal temperature switch | Additional features | Capillary |
|-----------------|---------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------|-----------|
| | 01HT-101CA | Changeover | Auto reset | 1 m |
| | | | | |
| Electrical data | Electrical connection | | Spring loaded terminal max. 2.5 mm ² | |
| | Cable entry | | Cable gland with strain relief M20x1.5 mm, for cable ø612 mm | |
| Functional data | Application | | Air Water | |
| | Output signal temperature switch note | | AC 230 V 16 (2.5) A @ Switch position 1-2 AC 230 V 6.3 (2.5) A @ Switch position 1-4 DC 230 V 0.25 A | |
| | Switching reliability | | Min. switching current 100 mA @ AC / DC 24 V | |
| Measuring data | Measured values | | Temperature | |
| - | Measuring range temperature | | 3090°C | |
| | Adjustment range temperature | | 3090°C | |
| | Switching differential (temperature) | | Тур. 4.2 К | |
| | Accuracy temperature passive | | ±1.8 K (upper third of measuring range) ±3.6 K (at scale beginning of measuring range) | |
| Materials | Cable gland | | PA6, black | |
| | Housing | | Bottom: PA (RAL 7001, silver grey) Cover: ABS with inspection glass (PMMA) Seal: NBR | |
| | Capillary | | Copper | |
| Safety data | Degree of protection IEC/EN | | IP54 IP protection with mounted sealing elements | |
| | EU Conformity | | CE Marking | |
| | Certification IEC/EN | | DIN EN 60730-1 and DIN EN 14597 | |
| | Quality Standard | | ISO 9001 | |
| | Type of action | | Type 2 BL | |
| | Ambient humidity | | Max. 95% RH, non-condensing | |
| | Ambient temperature | | 080°C [32175°F] | |
| | Ambient temperature note | | On temperature probe max. setpoint +25 K, on switch head max. 80°C | |

Up to max. 115°C

Fluid temperature





This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application. Unauthorised modifications are prohibited. The product must not be used in relation with any equipment that in case of a failure may threaten humans, animals or assets.

Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.

The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.



During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

Remarks

Switching function

If the temperature on the sensor exceeds the setpoint value, the changeover is activated by the transmission mechanics and the electrical circuit is opened resp. closed. If the temperature falls (cooling down), the changeover is reset to its initial positon.





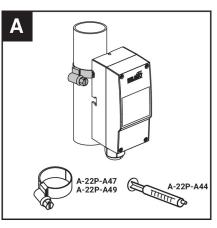


Technical data sheet

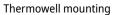
Installation situation

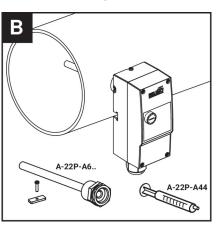
ion The temperature monitors can be installed in four different ways.

Pipe contact mounting



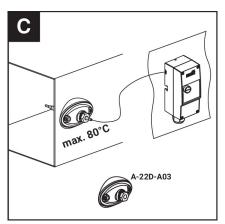
The tightening strap is included in the scope of delivery





The thermowell A-22P-A6... is available as an optional accessory

Wall mounting with probe in flange

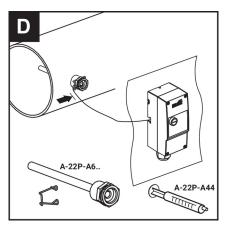


The A-22D-A03 flange is available as an optional accessory



Technical data sheet

Wall mounting with probe in immersion sleeve



The thermowell A-22P-A6... is available as an optional accessory

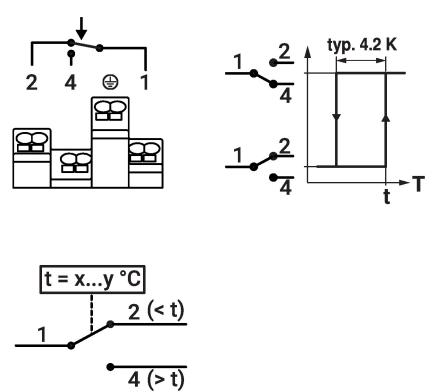
Parts included

Fixing strap for pipes from ø15...100 mm

Accessories

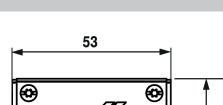
| Optional accessories | Description | Туре |
|-------------------------------|--------------------------------------------------------------------------|-----------|
| | Syringe with thermal paste | A-22P-A44 |
| | Fixing strap, for pipes ø20110 mm [0.84.3"] | A-22P-A47 |
| | Fixing strap, for pipes ø20250 mm [0.89.8"] | A-22P-A49 |
| | Mounting flange for sensor probe 6 mm, up to max. 120°C [248°F], Plastic | A-22D-A03 |
| Recommended accessories water | Description | Туре |
| | Thermowell kit (fabricated) Brass nickel-plated, 100 mm, G 1/2", SW22 | A-22P-A61 |
| | Thermowell kit (fabricated) Brass nickel-plated, 150 mm, G 1/2", SW22 | A-22P-A62 |
| | Thermowell kit (fabricated) Brass nickel-plated, 200 mm, G 1/2", SW22 | A-22P-A63 |
| | Thermowell kit (fabricated) Stainless steel, 100 mm, G 1/2", SW22 | A-22P-A64 |
| | Thermowell kit (fabricated) Stainless steel, 150 mm, G 1/2", SW22 | A-22P-A65 |
| | Thermowell kit (fabricated) Stainless steel, 200 mm, G 1/2", SW22 | A-22P-A66 |

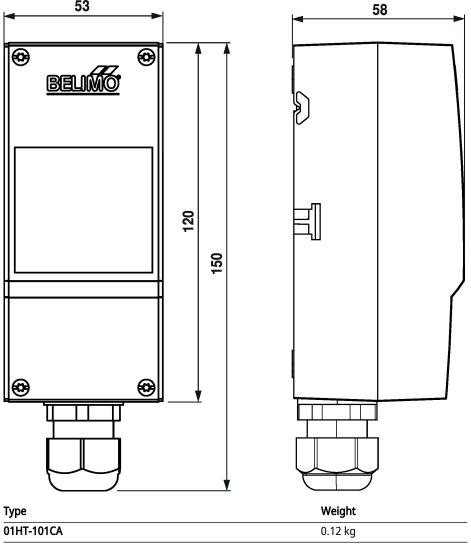




If the capillary leaks, the electrical circuit 1-2 remains permanently closed.







Further documentation

• Installation instructions

⊕

Туре