# Capillary Thermostat heatTHERM-AT

heatTHERM-AT capillary thermostat can be used to controll electric cable heating systems for freeze protection of pipelines and vessels. The thermostat controls the electric cable heating system according to the ambient temperature.
heatTHERM-AT is a temperature monitor (TW). When the temperature of the sensing element falls below the setting point, a micro switch trips the transmission mechanism and the power circuit closes. At the same time, the signal circuit is opened. If the temperature of the sensing element exceeds the set value (switching differential), the micro switch trips, opening the power circuit. The signal circuit, in turn, closes.

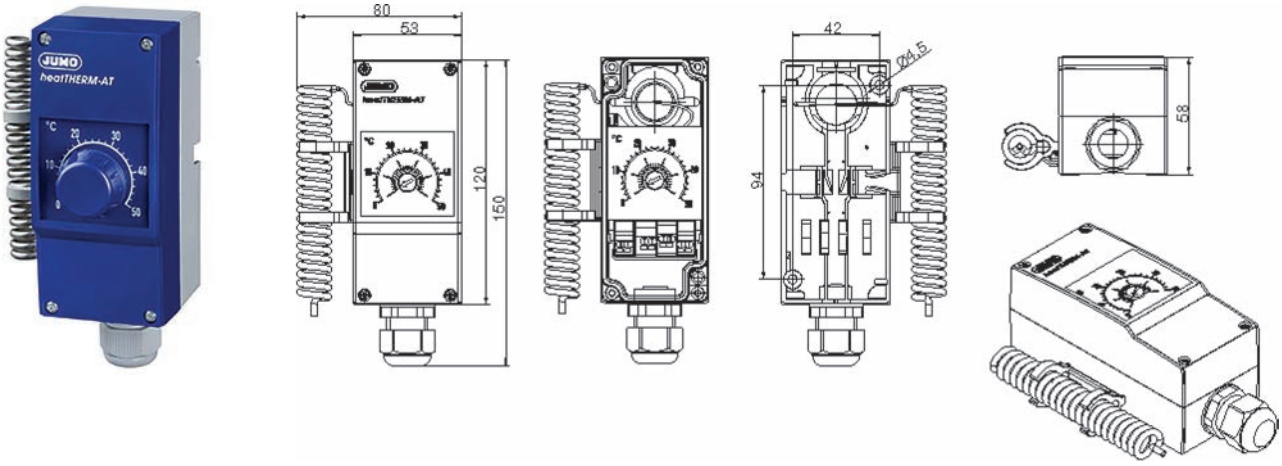
## Features

- Stable switching point position due to ambient temperature compensation (standard)
- Maximum switching capacity 16 A, 230 V
- Tested according to DIN EN 14597
- Operating life at least 250,000 switching cycles
- Switching point deviation during the entire operating life of up to ± 5 %
- Protection type IP54

## Application Areas

- Freeze protection of pipelines and vessels (non-Ex)

## Construction





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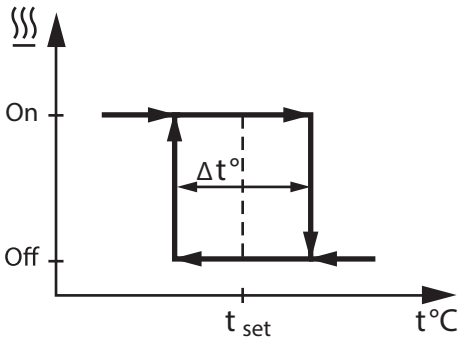
## Technical Data

| | |
|---|---|
| Temperature setting range | -10 … +40 °C |
| Maximum switching capacity | contact deck 1-2<br>AC 230 V +10%, 16 (2.5) A, cos φ = 1 (0.6)<br>contact deck 1-4<br>AC 230 V +10 %, 2 (04) A, cos φ = 1 (0.6) |
| Hysteresis | Approx. 2.5 % |
| Protection type | IP54 |
| Weight | Approx. 200 g |
| Cable inlet | Cable gland M20×1.5, for cable ø6-12 mm |
| Ambient temperature range | -30 … +80 °C |
| Diameter of probe | 17 mm coiled probe |
| Capillary material | Stainless steel (CrNi) |
| Dimension | Without cable glands and probe<br>120×53×58 mm<br>Included cable glands and probe<br>160×80×58 mm |
| Installation type | Surface mounted |

## Approvals

## Function Diagram

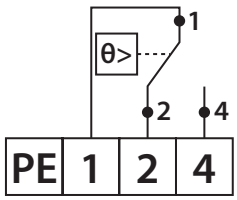



## Marking

**Example:** heatTHERM-AT(-10…+40)
① ②

1. Type of thermostat
2. Control temperature range

## Wiring Diagram




## Types

| Name | Order code |
|---|---|
| Jumo heatTHERM-AT(-10…+40) | 1120001001 |