



STB+TW

## STB/STW

### Temperature monitors, temperature limiters, type-tested

Temperature monitors and temperature limiters are tested according to Pressure Equipment Directive 97/23 EC, meet the requirements of DIN EN14597 and can thus be used for heating systems according to DIN EN12828, for steam and hot water systems and for district heating

systems. The devices with safety function (STW, STB) are self-monitoring, i.e. in the event of breakage or leaks in the measuring system the circuit is opened and the system is switched off towards the safe side.

#### Technical data

|                                      |  |
|--------------------------------------|--|
| <b>Body</b>                          | Diecast aluminium with plastic cover.  |
| <b>Immersion tube</b>                | Brass G 1/2", included with product<br>Stainless steel G 1/2", order separately.<br>Type T5NSTF, see Product Summary                                       |
| <b>Permitted ambient temperature</b> | +80°C at the switching head  |
| <b>Switching point accuracy</b>      | (in upper third of scale)<br>for TW, STW, STB: ± 5 %<br>for TR: ± 1.5 %<br>(in % of scale range)   |
| <b>Switching differential</b>        | (in % of scale range)<br>for TR, TW: 3–4 %<br>for STW, STB: 4–6%   |
| <b>Lead seal</b>                     | The cover of the switching device can be lead sealed so that the internal settings of the limiter switching points are no longer accessible after sealing. |
| <b>Switching capacity</b>            | 10 (2) A, 250 VAC  |
| <b>Degree of protection</b>          | IP 54  |

| Type   | STW+TR                                    | STB+TW                                 | STB+TR                                    |
|--|---|--|---|
| Function   | Safety temperature monitor and controller | Safety temperature limiter and monitor | Safety temperature limiter and controller |
| Setting range                                      | 20 to 150 °C                              | 30 to 110 °C                           | 30 to 110 °C                              |
| Setting  | STW internal<br>TR external               | STW internal<br>TW internal            | STB internal<br>TR external               |
| Controls accesible from outside                    | Setting wheel for TR                      | Reclosing button                       | Reclosing button and setting wheel for TR |
| Contact  | 2 x changeover                            | NC (STB) and changeover (TW)           | NC (STB) and changeover (TR)              |
| Reclosing lockout (internal)                       | no  | yes                                    | yes                                       |
| Max. temperature at sensor                         | 175 °C                                    | 130 °C                                 | 130 °C                                    |
| Immersion depth                                    | 150 mm                                    | 150 mm                                 | 150 mm                                    |
| Permitted pressure, brass immersion tube           | 25 bar                                    | 25 bar                                 | 25 bar                                    |
| Permitted pressure, stainless steel immersion tube | 40 bar<br>T5NST                           | 40 bar<br>T5NST                        | 40 bar<br>T5NST                           |

#### Immersion wells, stainless steel 1.4571, G1/2", Ø 15mm

| Temp. monitor, temp. limiter | Immersion depth | Type  |
|------------------------------|-----------------|-------|
| STB+TW<br>STB+TR<br>STW+TR   | 150 mm          | T5NST |



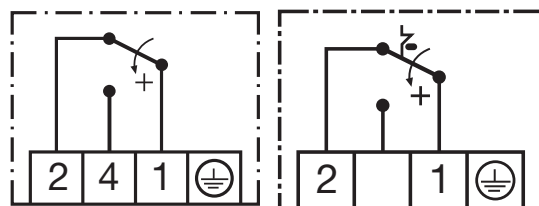
STW + TR



STB + TR

#### Connection schemes:

In devices with a dual function there are 2 switching elements. Pay attention to the function of the relevant switch when connecting.



STW, TR, TW

STB

#### Dimensioned drawings (mm)

