

## JUMO safetyM STB/STW Ex – Safety Temperature Limiter/Monitor According to DIN EN 14597 and ATEX Approval

- Ignition protection type [Ex ia] with intrinsically safe inputs or [Ex e] with increased safety
- Approval II (1) (2) (3) G (b1) [Ex ia Ga] (e pz) IIC, II (1) (2) (3) D (b1) [Ex ia Da] (p Dc) IIIC, II (1) (1) (2) G (b2) [Ex ia Ga] (e py) IIC, II (1) (1) (2) D (b2) [Ex ia Da] (p DB) IIIC
- Safety monitor and safety limiter for temperature, pressure, and other process variables
- Configurable universal input
- 1oo2D architecture (2-channel structure with diagnostics channel)
- Approvals according to DIN EN 14597, SIL 3, PL e
- Security-related limit value relay (230 V, 3 A)
- Pre-alarm absolute or adjustable as a margin from the limit value
- Default actual value output
- Compact solution
- Ignition source monitoring according to EN 13463 and EN 50495 SIL 2
- Minimum pressure monitoring SIL 2



### Order details

|                                     |  |
|-------------------------------------|--|
| <b>(1) Type</b>                     |  |
| 701155                              | Safety temperature limiter/ monitor (DIN EN 14597 and ATEX approval) |
| <b>(2) Configuration</b>            |  |
| 8                                   | Default setting (JUMO default configuration)                         |
| 9                                   | Customer setting   |
| <b>(3) Language</b>                 |  |
| 01                                  | German   |
| 02                                  | English  |
| 03                                  | French   |
| <b>(4) Basic type extension</b>     |  |
| 0251                                | Safety temperature monitor (O-function)                              |
| 0252                                | Safety temperature monitor (N.O.-function)                           |
| 0253                                | Safety temperature limiter (O-function)                              |
| 0254                                | Safety temperature limiter (N.O.-funct.)                             |
| <b>(5) Measuring input</b>          |  |
| 1003                                | 1x Pt100 in 2-wire circuit   |
| 1053                                | 1x 4..20mA   |
| 2001                                | 2x Pt100 in 3-wire circuit   |
| 2003                                | 2x Pt100 in 2-wire circuit   |
| 2005                                | 2x Pt1000 in 2-wire circuit  |
| 2006                                | 2x Pt1000 in 3-wire circuit  |
| 2036                                | 2x W5Re-W26Re "C"  |
| 2037                                | 2x W3Re-W25Re "D"  |
| 2039                                | 2x Cu-CuNi "T"   |
| 2040                                | 2x Fe-CuNi "J"   |
| 2041                                | 2x Cu-CuNi "U"   |
| 2042                                | 2x Fe-CuNi "L"   |
| 2043                                | 2x NiCr-Ni "K"   |
| 2044                                | 2x Pt10Rh-Pt "S"   |
| 2045                                | 2x Pt13Rh-Pt "R"   |
| 2046                                | 2x Pt30Rh-Pt6Rh "B"  |
| 2048                                | 2x NiCrSi-NiSi "N"   |
| 2053                                | 2x 4..20mA   |
| <b>(6) Voltage supply</b>           |  |
| 23                                  | AC 110 to 240 V +10/-15 %,48 to 63 Hz                                |
| 25                                  | AC/DC 20..30V,48..63Hz   |
| <b>(7) Ignition protection type</b> |  |
| 044                                 | Ex ia  |

|                            |  |
|----------------------------|--|
| 045                        | [Ex eb, tb] corresponding equipment, eb for gas, tb for dust, installation outside the ex area |
| <b>(8) Output</b>          |  |
| 001                        | 0..20 mA analog (not safety-related)   |
| 005                        | 4..20 mA analog (not safety-related)   |
| 040                        | 0..10 V analog (not safety-related)  |
| 070                        | 2..10 V analog (not safety-related)  |
| <b>(9) DNV GL approved</b> |  |
| 000                        | Without approval   |
| 062                        | With DNV GL approval   |
| <b>(10) Extra codes</b>    |  |
| 059                        | With SIL-, PL-, IPL-approval   |

**Order code**

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10)  
 /  -  -  -  -  -  ,  /  ,


**DGRL**

**EAC Ex**

**Stock versions**

| Order code                               | Part no. |
|--|----------|
| 701155/8-01-0253-2001-23-044-005/059,000 | 00572503 |
| 701155/8-01-0253-2001-25-044-005/059,000 | 00572502 |

**Accessories**

| Description   | Part no. |
|---|----------|
| USB cable, A-connector to Mini-B connect length 3 m | 00506252 |
| external reset push button                          | 97097865 |

**Software**

| Description                  | Part no. |
|------------------------------|----------|
| Setup JUMO STB/STW 701150/55 | 00548742 |