

Certificate

No. SEBS-A.102606/16-1 V1.0

TÜV NORD Systems GmbH & Co. KG hereby certifies to

JUMO GmbH & Co.KG

Moritz-Juchheim-Straße 1
36039 Fulda

that the safety related products electronic safety temperature monitor/limiter

JUMO safetyM STB/STW 701150

are capable for safety related applications up to SIL 3 and up to PL e respectively and meet the requirements listed in the following standards.

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- DIN EN 61508/-1/-2/-3: 2011
 - DIN EN 14597: 2015
 - DIN EN 60730-2-9: 2011
 - DIN EN ISO 13849-1: 2016
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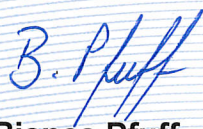
The type-list of the products is pictured on the backside of this certificate.

The certification is based on the report
No. SEBS-A.102606/16TB-1 in the valid
version.

This certificate entitles the holder to use
the pictured Safety Approved mark.

Expiry date: 2021-09-04
Reference No.: 8113652348

Hamburg, 2016-09-05


Bianca Pfuff

Certification body SEECERT
TÜV NORD Systems GmbH & Co. KG
Große Bahnstraße 31, 22525 Hamburg, Germany



Product-Typelist for certificate SEBS-A.102606/16-1, Version V1.0

Types	Connected sensors (Architecture)	SFF	PFD_{avg}	PFH [1/h]
230V: JUMO safetyM STB/STW 701150	1PT100 – two-wire-technology (1oo1)	96%	2,02e-4	4,56e-9
	2 PT100/PT1000 – two-wire-technology (1oo2)	96%	4,57e-5	1,05e-9
	2 PT100/PT1000 – three-wire-technology (1oo2)	96%	4,57e-5	1,05e-9
	2 thermal element (1oo2)	96%	4,49e-5	1,03e-9
	1 PT100/PT1000 – (two- and three-wire technology) (1oo2) 1 thermal element	96%	5,30e-5	1,22e-9
	STB/STW 701150 without sensors has a 1oo2D architecture no sensing device or use of 4..20mA means that the sensing device is not included in the calculations	96%	4,48e-5	1,04e-9
24V: JUMO safetyM STB/STW 701150	1PT100 – two-wire-technology (1oo1)	96%	2,91e-4	6,59e-9
	2 PT100/PT1000 – two-wire-technology (1oo2)	96%	1,35e-4	3,07e-9
	2 PT100/PT1000 – three-wire-technology (1oo2)	96%	1,35e-4	3,07e-9
	2 thermal element (1oo2)	96%	1,37e-4	3,13e-9
	1 PT100/PT1000 – (two- and three-wire technology) (1oo2) 1 thermal element	96%	1,41e-4	3,23e-9
	STB/STW 701150 without sensors has a 1oo2D architecture no sensing device or use of 4..20mA means that the sensing device is not included in the calculations	96%	1,33e-4	3,05e-9

The JUMO safetyM STB/STW 701150 has the following mode of actions according to DIN EN 14597: 2B, 2D, 2F, 2K, 2J, 2V, 2N, 2P, Software class C

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