

# (1) Certificate

- (2) Number of Certificate: **ZP/C006/21**
- (3) Product: **Ex-I supply and input amplifiers  
707530**
- (4) Manufacturer: **JUMO GmbH & Co. KG**
- (5) Address: **Moritz-Juchheim-Str. 1  
36039 Fulda, Germany**
- (6) The design and construction of this products and any acceptable variation thereto are specified in the schedule to this certificate.
- (7) The certification body of DEKRA Testing and Certification GmbH certifies that these products have been found to comply with the essential requirements pursuant to the standard(s) referred in section 8. The examination and test results are recorded in the test and assessment report FSAR08032021V1JUMO.
- (8) The essential requirements are assured by compliance with the following standard(s):


**IEC 61508-1:2011****DIN EN 61508-2:2011****IEC 62061:2005 +  
A1:2012+A2:2015**

- (9) This certificate only relates to the design, examination und tests of the specified products in accordance with the mentioned standard(s). Further requirements apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (10) This certificate is valid until 2026-04-19

DEKRA Testing and Certification GmbH  
Bochum, 2021-04-20

signed: Kilisch  
\_\_\_\_\_  
Managing Director

We confirm the correctness of the translation from the German original. In the case of arbitration only the German wording shall be valid and binding.

  
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Managing Director

## TRANSLATION

(11) Appendix to

(12) **Certificate**  
**ZP/C006/21**

(13) 13.1 Subject and Type:

Ex-I supply and input amplifiers  
707530

### 13.2 Description

The Ex-I supply and input amplifiers 707530 are designed for the operation of intrinsically safe transmitters and mA current sources installed in hazardous areas. 2-wire transmitters are supplied with power. 4-wire transmitters as well as mA current sources can be operated via the non-powered input. The analog 4 ... 20mA measured value from the Ex area is transmitted to the non-Ex area via an electrically isolated output.

The safety function of the device consists of forwarding a standard signal of 4mA ...20mA with a deviation of max. 2%.

### 13.3 Parameters

	1oo1 – single-channel
Classification	Type A
PFH	$6.21 \times 10^{-8}$ 1/h (62.1 FIT)
PFD	$2.72 \times 10^{-4}$
SFF	80.17%
Process Safety Time	< 500 ms
Proof Test Interval T <sub>1</sub>	1 year (8760h)
Mission Time	10 years
Safety Integrity	SIL 2 / SILCL2
Systematic Suitability	SC 3 / SILCL3 for two-channel use (1oo2)

(14) Test and Assessment Report(s)

FSAR08032021V1JUMO dated 2021-03-17

(15) Special Conditions for Safe Use

- External monitoring of the supply voltage for undervoltage (<19.2 V)
- External monitoring of ambient temperature at installation site
- External detection of short circuit and interruption of the output line with interlocking
- External monitoring for deviation by 2% of the output signal
- Protection from modification by user