



(1) **UK - Type Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – **UKSI 2016:1107 (as amended)**

(3) UK - Type Examination Certificate Number

EPS 22 UKEX 2 090 X

Revision 0

(4) Equipment: Float level switches and float level transmitter JUMO NESOS 4083XX/4X

(5) Manufacturer: JUMO GmbH & Co. KG

(6) Address: Moritz-Juchheim-Straße 1
36039 Fulda
Germany

(7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services United Kingdom Limited, approved body No. 8507 in accordance with UKSI 2016:1107 (as amended) Part 4, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Schedule 1 of UKSI 2016:1107 (as amended). The examination and test results are recorded in the confidential documentation under the reference number 22TH0290.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-1:2014

EN 60079-26:2015

EN 60079-31:2014

EN ISO 80079-36:2016

EN ISO 80079-37:2016

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This UK - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with UKSI 2016:1107 (as amended). Further requirements apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:



II 1/2G Ex db h IIC T6 ... T3 Ga/Gb
II 2D Ex tb h IIIC T80°C ... T200°C Db

Deviations of the gas group for different configurations:

II 1/2G Ex db h IIB T6...T3 Ga/Gb or
II 1/2G Ex db h IIA T6...T3 Ga/Gb



Certification department of explosion protection

Warrington, 15-05-2023

N. Wilkinson
Natalie Wilkinson

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Registered in England & Wales
Company Number: 00852439

ZERT-0003-GBR-ZE-EX-V03 / TEMP-0005-GBR-ZE-EX-V01



(13)

Annex

(14) **UK - Type Examination Certificate EPS 22 UKEX 2 090 X**

Revision 0

(15) Description of equipment:

The limit and level measurement takes place according to the Archimedean principle for liquids. The float moves along the guide tube as the level rises or falls.

The magnet in the float actuates the reed contact(s) installed in the guide tube with its magnetic field.

The switching status of the reed contact can be evaluated and processed through downstream electronics.

The electrical connection, process connection, guide tube length, float, as well as the number, position and function of the contacts may vary depending on the ordered variant.

The float switch is used to switch smaller loads such as lamps, horns, PLC inputs, motor controls, pumps or valves.

The float level transmitter measures quasi-continuously the level of a liquid and transmits a standardized output signal.

Details of Rating:

Ratings for float level switches:

Switch voltage:	max. 250 V AC/DC
Switch current:	max. 1.5 A
Switch power:	max. 100 VA / W

Ratings for float level transmitters:

Power supply:	8 V DC to 30 V DC, SELV-circuit
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Options:

Ratings for temperature switches:

Switch voltage	max. 250 V AC/DC
Switch current	max. 1.5 A
Switch power:	max. 100 VA / W

Ratings for temperature sensors:

Voltage:	max. 30 V DC
Current:	max. 55 mA
Power:	max. 413 mW

Protection: Depends device configuration and is defined in type drawings and datasheets, at least IP54 (Ex Ga) respectively IP65 (Ex Da)

Classification of installation: stationary

Rated ambient temperature: Depends on the device configuration and is defined in the type drawings or datasheet.

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UK - Type Examination Certificate EPS 22 UKEX 2 090 X

Revision 0

(16) Reference number: 22TH0290

(17) Special conditions for safe use:

1. The rated ambient temperature depends on the device configuration and is defined in the drawings or data sheet.
2. In case the flange, stopper and floats are made from titanium alloy ignition sparks needs to be prevented by the end user.
3. Glands for use with conduit, unarmored or braided cables are only suitable for fixed installations, for which the cable must be effectively clamped to prevent pulling and twisting.

(18) Essential health and safety requirements:

Met by compliance with standards.

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