



- (1) **EU-Type Examination Certificate**
- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**
- (3) Certificate number: **SEV 25 ATEX 0764 X**
- (4) Product: High Pressure Sensor JUMO TAROS H48 Ex (Type 404740)
- (5) Manufacturer: JUMO GmbH & Co. KG
- (6) Address: Moritz-Juchheim-Strasse 1, 36039 Fulda, Germany
- (7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) Eurofins, notified body No. 1258, in accordance with article 17 of Directive 2014/34/EU of the European parliament and of the council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no 24CH-01018OR01.X01
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:
- EN IEC 60079-0:2018**
EN IEC 60079-11:2024
- Except in respect of those requirements listed at item 18 of the schedule.
- (10) If the sign «X» is placed after the certificate number, it indicates that the product is subjected to special conditions for safe use specified in the schedule to this certificate. The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- (11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (12) The marking of the product shall include the following:



II 2G Ex ib IIC T6...T4 Gb
II 2D Ex ib IIIC T85 °C ... T135 °C Db

Eurofins Electric & Electronic Product Testing AG
Notified Body ATEX

Urban Strebel
Product Certification



Appendix

(13)

(14)

EU-Type Examination Certificate no. SEV 25 ATEX 0764 X

(15) **Description of product**

The pressure transmitter measures the relative pressure of liquid, vapor, and gaseous media. The device is suitable for installation in pipelines and containers. It can also be used in applications requiring explosion protection or in shipbuilding. Installation is carried out via individual process connections. The device meets the requirements of Explosion Group II for categories 2 G and 2 D when connected to intrinsically safe circuits. For this purpose, a certified intrinsically safe [Ex i] transmitter power supply must be used.

Function:

The device measures the relative process pressure in liquid or gaseous media. The process pressure acts via a membrane on a metallic thin-film sensor and deforms its substrate. This deformation changes the electrical resistance of the material. This change in resistance is proportional to the mechanical deformation and thus to the applied pressure. The measured pressure is converted into a 4 to 20 mA standard signal and output via various electrical connections.

Rating:

$U_i \leq 28 \text{ V}$; $I_i \leq 115 \text{ mA}$; $P_i \leq 750 \text{ mW}$; $C_i \leq 40 \text{ nF}$; $L_i \leq 1.5 \text{ }\mu\text{H}$

(16) **Report number**

24CH-01018OR01.X01

(17) **Specific conditions of use**

Equipment Protection Level Gb:

Permissible Ambient and Process Temperature:

T4: $-40 \text{ }^\circ\text{C}$ to $+85 \text{ }^\circ\text{C}$

T5: $-40 \text{ }^\circ\text{C}$ to $+70 \text{ }^\circ\text{C}$

T6: $-40 \text{ }^\circ\text{C}$ to $+55 \text{ }^\circ\text{C}$

Equipment Protection Level Db:

Permissible Ambient and Process Temperature:

T135 $^\circ\text{C}$: $-40 \text{ }^\circ\text{C}$ to $+85 \text{ }^\circ\text{C}$

T100 $^\circ\text{C}$: $-40 \text{ }^\circ\text{C}$ to $+70 \text{ }^\circ\text{C}$

T85 $^\circ\text{C}$: $-40 \text{ }^\circ\text{C}$ to $+55 \text{ }^\circ\text{C}$

(18) **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause Subject

None

(19) **Drawings and Documents**

See test report „Manufacturer's Documents“

