



(1) **EU-TYPE EXAMINATION CERTIFICATE**  
(Translation)

(2) Equipment or Protective Systems Intended for Use in  
Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

**PTB 98 ATEX 2194**

**Issue: 1**

(4) Product: Pressure transducer, type dTRANS p02  
and type dTRANS p02 DELTA

(5) Manufacturer: JUMO GmbH & Co. KG

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

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the 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 the confidential Test Report PTB Ex 18-27147.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012 + A11:2013**

**EN 60079-11:2012**

**EN 60079-26:2015**

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the 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 1/2 G Ex ia IIC T6 Ga/Gb**

Konformitätsbewertungsstelle, Sektor Explosionsschutz

Braunschweig, May 22, 2018

On behalf of PTB:



Dr.-Ing. F. Lienesch  
Direktor und Professor



(13)

## SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 98 ATEX 2194, Issue: 1**

(15) Description of Product

The pressure transducers of types dTRANS p02 and dTRANS p02 DELTA are used for the conversion of a measurand into an electrical standardized signal. The equipment is intended for the application inside the hazardous area.

The enclosure for the electronics system is installed in areas requiring equipment of category 2. The process connection elements are mounted into the partition that separates areas from each other where equipment of category 2 or category 1 is required.

The maximum permissible ambient temperature depends on the temperature class as follows:

Temperature class	Ambient temperature
T4	85 °C
T5	75 °C
T6	60 °C

### Electrical data

Supply circuit  
 (terminals P601 +, P602 -,  
 or plug connector)

type of protection Intrinsic Safety Ex ia IIC  
 only for connection to a certified intrinsically  
 safe circuit.

Maximum values:  $U_i = 30 \text{ V}$   
 $I_i = 100 \text{ mA}$   
 $P_i = 750 \text{ mW}$   
 $C_i = 11 \text{ nF}$   
 $L_i = 170 \text{ } \mu\text{H}$

Display circuit

system-internal circuit of type of protection  
 Intrinsic Safety Ex ia IIC

Sensor circuit

type of protection Intrinsic Safety Ex ia IIC, system-  
 internal or for connection to the associated sensor using  
 the associated permanently mounted cable.

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**SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 98 ATEX 2194, Issue: 1**

Modifications pertaining to previous editions

- Introduction of a new flexprint that interconnects the sensor unit and the electronic module.
- Revision of the type label
- Revision and actualization of the test documents
- Summarization of all specifications from the initial certificate and its supplements 1 through 5 as well as the modifications mentioned above, to represent the current state of production.

(16) Test Report      PTB Ex18-27147

(17) Specific conditions of use

none

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

According to Article 41 of Directive 2014/34/EU, EC-type examination certificates which have been issued according to Directive 94/9/EC prior to the date of coming into force of Directive 2014/34/EU (April 20, 2016) may be considered as if they were issued already in compliance with Directive 2014/34/EU. By permission of the European Commission supplements to such EC-type examination certificates and new issues of such certificates may continue to hold the original certificate number issued before April 20, 2016.

Konformitätsbewertungsstelle, Sektor Explosionsschutz

Braunschweig, May 22, 2018

On behalf of PTB:

  
Dr.-Ing. F. Lienesch  
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