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EU-Type Examination Certificate

(1)

(2) Equipment or protective system intended for use in potentially explosive atmospheres **- Directive 2014/34/EU**

(3) Certificate number: **SEV 09 ATEX 0138 X**

(4) Product: Process pressure transmitter dTRANS p20 Type 403025, JUMO dTRANS p20 DELTA Type 403022

(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 22CH-01294.X06

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

EN IEC 60079-0:2018
EN 60079-11:2012
EN 60079-26:2015

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:

-> Appendix

Eurofins Electric & Electronic Product Testing AG
Notified Body ATEX

Munira Gamma
Product Certification N. Gamma

(13) # Appendix

(14) **EU-Type Examination Certificate no. SEV 09 ATEX 0138 X**

(15) **General product information**

The process pressure transmitter JUMO dTRANS p20 type 403025 or JUMO dTRANS p20 DELTA type 403022 serves for converting a physical measured quantity (pressure) into a standard electrical signal (4 ... 20 mA).
The device is intended for use within potentially explosive atmospheres.
The stainless steel enclosure of the pressure transmitter has the type of protection IP 66 according to EN 60529. The pressure transmitter can be housed in three different types of enclosure.

The process pressure transmitter is attached to tanks or pipes by means of a process connection.
The pressure measuring cell serves for zone separation and is made of stainless steel, Hastelloy®, Monel or titanium. This zone separation takes place by means of the diaphragm and subsequent flashback safe gap or the flashback safe gaps can also be integrated directly in the process connection upstream of the pressure measuring cell/pressure sensor.

Classification of installation and use:	fixed installation
Ingress protection:	IP66

Marking:
For type JUMO dTRANS p20 Type 403025:
Ⓔx II 1/2G Ex ia IIC T6...T3 Ga/Gb
II 1/2D Ex ia IIIC T105 °C Da/Db

For type JUMO dTRANS p20 DELTA Type 403022:
Ⓔx II 1G Ex ia IIC T4 Ga
II 1D Ex ia IIIC T_{200}125 °C Da

Rating:
Input and supply circuits:
with type of protection intrinsic saftey Ex ia IIC
Only for connection to certified intrinsically safe circuit.
Maximum values:

Ui	≤ 28 V	
Ii	≤ 115 mA	
Pi	≤ 750 mW	
Ci	= 6 nF	(effective internal capacitance)
Li	= 105 µH	(effective internal inductance)

or

Input and supply circuits:
with type of protection intrinsic saftey Ex ia IIIC
Only for connection to certified intrinsically safe circuit.
Maximum values:

Ui	≤ 28 V	
Ii	≤ 115 mA	
Pi	≤ 750 mW	
Ci	= 6 nF	(effective internal capacitance)
Li	= 105 µH	(effective internal inductance)

(16) **Report number** 22CH-01294.X06

(17) **"Special conditions for safe use" / "Schedule of limitations"**

The intrinsically safe circuit must be limited by overvoltage category I as defined in IEC 60664-1 respectively the circuits must be supplied exclusively from a certified intrinsically safe power source with the protection level "ia".

Process pressure transmitter **JUMO dTRANS p20 type 403025** see table below for the relation between maximum permissible ambient temperature in area of electronic enclosure, measurement substances and temperature classes:

Class of temperature	T6	T5	T4	T3
Maximum permissible ambient temperature in the top of enclosure with electronic (°C)	-50 to +50	-50 to +65	-50 to +85	-50 to +85
highest permissible temperature of substance (°C)	+60	+70	+115	+175

Process pressure transmitter **JUMO dTRANS p20 DELTA type 403022** see table below for relation between maximum permissible ambient temperature in area of electronic enclosure, measurement substances and temperature classes:

Class of temperature	T4
Maximum permissible ambient temperature in the top of enclosure with electronic (°C)	-50 to +60
highest permissible temperature of substance (°C)	+100

Process pressure transmitter **JUMO dTRANS p20 type 403025** see table below for the relation between maximum permissible ambient temperature in area of electronic enclosure, measurement substances and maximum surface temperature:

Surface temperature	T105 °C
Maximum permissible ambient temperature in the top of enclosure with electronic (°C)	-50 to +60
highest permissible temperature of substance (°C)	+100

Process pressure transmitter **JUMO dTRANS p20 DELTA type 403022** see table below for the relation between maximum permissible ambient temperature in area of electronic enclosure, measurement substances and maximum surface temperature:

Surface temperature	T_{200}125 °C
Maximum permissible ambient temperature in the top of enclosure with electronic (°C)	-50 to +60
highest permissible temperature of substance (°C)	+100

Between -40 °C to -50 °C the equipment must be permanently in operation and the cover with view window must be protected against to mechanical hit or impact.

(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"