



(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 16 ATEX 0120**

(4) Product: Pressure transducer Type: 711.****0***1*, 711.99***

(5) Manufacturer: Huba Control AG

(6) Address: Industriestrasse 17, 5436 Würenlos, Switzerland

(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 21CH-00554.X03

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

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

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 1G Ex ia IIC T4 Ga**

Eurofins Electric & Electronic Product Testing AG
Notified Body ATEX

Martin Plüss
Product Certification

(13)

Appendix

(14)

EU-Type Examination Certificate no. SEV 16 ATEX 0120

(15) **Description of product**

The pressure transducer 711 for level sensing consists of an electronic which is embedded and sealed with the ceramic cell in a stainless-steel case. For pressure measurement the hydrostatic pressure (level of liquids) is detected by the measuring cell. For the measurement of relative pressure a pipe in the cable directs the outside air pressure to the sensor.

Due to the use for level measurement in liquids the measuring cell, the case and the cable immerse into the media. The cover protects the pressure measuring cell from mechanical influence. The measurement of pressure is realised with the Wheatstone measuring bridge. A proportional voltage signal in correspondence with the pressure is detected and amplified by the electronic and transformed into a 4-20 mA output signal.

The power for the pressure transducer has to be supplied over a certified intrinsically safe circuit „ia“. The wires for power supply, the measuring signal, the potential equalisation conductor (earth wire) of the case and two venting hoses are integrated in the cable.

The connection box is an accessory for 711.

Rating:

For pressure transducer:

$U_i = 30 \text{ V}$

$I_i = 100 \text{ mA}$

$P_i = 750 \text{ mW}$

$C_i = 2 \text{ nF} + 204 \text{ pF/m}$

$L_i = 8 \text{ }\mu\text{H} + 1.48 \text{ }\mu\text{H/m}$

For junction box:

$U_{max} = 30 \text{ V}$

$I_{max} = 200 \text{ mA}$

Classification of installation and use:

stationary

Ingress protection:

IP68

Rated ambient temperature range (°C):

$-10 \text{ }^\circ\text{C} \leq T_{amb} \leq +80 \text{ }^\circ\text{C}$

Rated ambient temperature range (°C) for Ex Components:

N/A

(16) **Report number**

21CH-00554.X03

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

None

(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
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None	
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(19) **Drawings and Documents**

See test report “Manufacturer’s Documents”