



(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 12 ATEX 0138**
- (4) Product: Level sensing pressure transmitter Types: See page 2
- (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-00560.X07
- (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 12 ATEX 0138

(15) **Description of product**

Types:

- 712.***0***4* (4-20 mA)
- 712.***1***4* (ratiom.)
- 712.***2***4* (ratiom. with temp.)
- 712.99***
- 118027 (junction box)

The pressure transducer 712 for level measurement (hereafter referred to as DMU), consists of the electronic circuit board, encapsulated together with the ceramic pressure measurement cell in a stainless steel housing.

The static pressure at the pressure measurement cell is recorded for pressure measurement. Measurement of absolute pressure as well as relative pressure is possible. The external air pressure is applied through the cable to the sensor for relative pressure measurement when pressure ranges are low. The measuring transducer serves as submersible / immersion sensor. The measurement cell, the housing and the cable are thus exposed to the medium.

The voltage signal of the pressure measuring cell is converted into a ratiometric voltage output signal in the transducer's circuitry. A version with a current output signal (4-20mA) is also available.

A temperature dependent voltage output signal is provided optionally.

The electrical supply circuit must be a certified, intrinsically-safe circuit with a level of protection "ia".

Classification of installation and use:	stationary
Ingress protection:	IP68
Rated ambient temperature range (°C):	-20 °C to +80 °C
Rated ambient temperature range (°C) for Ex Components:	N/A

Ratings:

For ratiometer types:		U _i	=	15 VDC
		I _i	=	380 mA
		P _i	=	750 mW
		C _i	<	0.5 µF + 0.08 nF/m
		L _i	=	1.0 µH + 1.0 µH /m

For 4 – 20 mA types:		U _i	=	30 VDC
		I _i	=	100 mA
		P _i	=	750 mW
		C _i	=	0 µF + 0.08 nF/m
		L _i	=	0 µH + 1.0 µH /m

For junction box:		U _{max}	=	30 VDC
		I _{max}	=	200 mA



(16) **Report number** 21CH-00560.X07

(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
None	

(19) **Drawings and Documents**

See test report “Manufacturer’s Documents”