

## EU - Type Examination Certificate

- (1)
- (2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**
- (3) EU - Type Examination Certificate Number

**EPS 25 ATEX 1 203 X**

**Revision 0**

- (4) Equipment: Active Barrier, type ExTVA-600-U0
- (5) Manufacturer: ACS Control-System GmbH
- (6) Address: Lauterbachstraße 57  
84307 Eggenfelden  
Germany
- (7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.
- (8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 19TH0372\_00.
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:

**EN IEC 60079-0:2018**

**EN 60079-11:2012**

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions of use specified in the annex to this certificate.
- (11) This EU - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.
- (12) The marking of the equipment shall include the following:



II(1)G [Ex ia Ga] IIC

II(1)D [Ex ia Da] IIIC

Certification department of explosion protection

Tuerkheim, 2025-09-29

Ulrich Feike



Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.



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(13)

## Annex

(14) **EU - Type Examination Certificate EPS 25 ATEX 1 203 X**

**Revision 0**

(15) Description of equipment:

The active barrier, type ExTVA-600-U0, is used for the transmission and galvanic isolation of 0/4 to 20 mA signals. The device has an active/passive current input to which an intrinsically 2- or 4-wire transmitter can be directly connected.

HART communication signals are transmitted bidirectionally by the device.

Electrical data:

Supply:  
terminal 1.1 (L/+), 1.2 (N/-)      U = 24 to 230 V DC    (-20 % / +10 %)      50/60 Hz  
Um = 250 V

Output circuit:  
terminal 3.1 (+), 3.2 (-)      U = 30 V DC  
terminal 2.1 (+), 2.2 (-)      I = 0/4-20 mA  
Um = 30 V

Input circuit:

Connection 2-wire (active)  
terminal 4.1 (+), 4.2 (-)      Uo ≤ 27.3 V DC  
Io ≤ 87.6 mA  
Po = 597 mW  
Ci = negligibly small  
Li = negligibly small

Max. connection values

Single values:

Ex ia IIC	Lo = 5.2 mH	Co = 0.088 µF
Ex ia IIB	Lo = 20.8 mH	Co = 0.683 µF
Ex ia IIA	Lo = 44.8 mH	Co = 2.28 µF

Combined values:

Ex ia IIC:	Lo/ Co	1.3 mH 0.047 µF	1 mH 0.052 µF	0.5 mH 0.065 µF		
Ex ia IIB:	Lo/ Co	26 mH 0.39 µF	2 mH 0.44 µF	1 mH 0.53 µF	0.5 mH 0.64 µF	0.2 mH 0.683 µF
Ex ia IIA:	Lo/ Co	49 mH 1.3 µF	20 mH 1.6 µF	1 mH 1.8 µF	0.5 mH 2.2 µF	0.2 mH 2.28 µF

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**Revision 0**

Connection 4-wire (passive)  
terminal 4.2 (+), 4.3 (-)

U<sub>o</sub> ≤ 27.3 V DC  
I<sub>o</sub> ≤ 10 mA  
P<sub>o</sub> = 68 mW  
C<sub>i</sub> = negligibly small  
L<sub>i</sub> = negligibly small

Max. connection values (combined)

Ex ia IIC:	Lo/ Co	100 mH 0.065 µF	2 mH 0.072 µF	1 mH 0.081 µF	0.5 mH 0.088 µF
Ex ia IIB:	Lo/ Co	100 mH 0.48 µF	2 mH 0.52 µF	1 mH 0.59 µF	0.5 mH 0.683 µF
Ex ia IIA:	Lo/ Co	100 mH 1.7 µF		1 mH 1.9 µF	0.5 mH 2.28 µF

Connection 4-wire (passive)  
terminal 4.2 (+), 4.3 (-)

U<sub>i</sub> ≤ 30 V DC  
I<sub>i</sub> not applicable when keeping U<sub>i</sub>  
P<sub>i</sub> not applicable when keeping U<sub>i</sub>  
C<sub>i</sub> = negligibly small  
L<sub>i</sub> = negligibly small

Maximum ambient temperature range: -40 °C ≤ T<sub>a</sub> ≤ +60 °C

(16) Reference number: 19TH0372\_00

(17) Special conditions of use:

If several devices are installed side by side, it is important to ensure that the maximum side wall temperature of the individual device of 80 °C (176°F) is not exceeded. If this cannot be guaranteed, the devices have to be mounted at a distance from one another or sufficient cooling must be ensured.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Tuerkheim, 2025-09-29

