



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX EPS 25.0051X** Page 1 of 5 Certificate history:  
Status: **Current** Issue No: 0  
Date of Issue: 2025-09-29  
Applicant: **ACS Control-System GmbH**  
Lauterbachstraße 57  
84307 Eggenfelden  
Germany  
Equipment: **Active Barrier, Type ExTVA-600-U0**  
Optional accessory:  
Type of Protection: **intrinsic safety "i"**  
Marking: [Ex ia Ga] IIC  
[Ex ia Da] IIIC

Approved for issue on behalf of the IECEx  
Certification Body:

Position:

Signature:  
(for printed version)

Date:  
(for printed version)



1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Bureau Veritas Consumer Products Services Germany GmbH**  
Businesspark A96  
86842 Türkheim  
Germany





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Manufacturer: **ACS Control-System GmbH**  
Lauterbachstraße 57  
84307 Eggenfelden  
Germany

Manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/EPS/ExTR25.0051/00](#)

Quality Assessment Report:

[DE/EPS/QAR23.0009/01](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

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.

Ambient temperature range:  $-40\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq +60\text{ }^{\circ}\text{C}$

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

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.



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## Equipment (continued):

### Electrical data:

#### Supply:

terminal 1.1 (L/+), 1.2 (N/-)       $U = 24 \text{ to } 230 \text{ V DC } (-20 \% / +10 \%) 50/60 \text{ Hz}$   
 $U_m = 250 \text{ V}$

#### Output circuit:

terminal 3.1 (+), 3.2 (-)       $U = 30 \text{ V DC}$   
terminal 2.1 (+), 2.2 (-)       $I = 0/4\text{-}20 \text{ mA}$   
 $U_m = 30 \text{ V}$

#### Input circuit:

##### Connection 2-wire (active)

terminal 4.1 (+), 4.2 (-)       $U_o \leq 27.3 \text{ V DC}$   
 $I_o \leq 87.6 \text{ mA}$   
 $P_o = 597 \text{ mW}$   
 $C_i = \text{negligibly small}$   
 $L_i = \text{negligibly small}$

#### Max. connection values:

##### Single values

Ex ia IIC	$L_o = 5.2 \text{ mH}$	$C_o = 0.088 \mu\text{F}$
Ex ia IIB	$L_o = 20.8 \text{ mH}$	$C_o = 0.683 \mu\text{F}$
Ex ia IIA	$L_o = 44.8 \text{ mH}$	$C_o = 2.28 \mu\text{F}$

#### Combined values:

Ex ia IIC:	Lo/ Co	1.3 mH 0.047 $\mu\text{F}$	1 mH 0.052 $\mu\text{F}$	0.5 mH 0.065 $\mu\text{F}$		
Ex ia IIB:	Lo/ Co	26 mH 0.39 $\mu\text{F}$	2 mH 0.44 $\mu\text{F}$	1 mH 0.53 $\mu\text{F}$	0.5 mH 0.64 $\mu\text{F}$	0.2 mH 0.683 $\mu\text{F}$
Ex ia IIA:	Lo/ Co	49 mH 1.3 $\mu\text{F}$	20 mH 1.6 $\mu\text{F}$	1 mH 1.8 $\mu\text{F}$	0.5 mH 2.2 $\mu\text{F}$	0.2 mH 2.28 $\mu\text{F}$



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## Input circuit:

### Connection 4-wire (passive)

terminal 4.2 (+), 4.3 (-)

$U_o \leq 27.3 \text{ V DC}$   
 $I_o \leq 10 \text{ mA}$   
 $P_o = 68 \text{ mW}$   
 $C_i = \text{negligibly small}$   
 $L_i = \text{negligibly small}$

### Max. connection values (combined):

Ex ia IIC:	Lo/ Co	100 mH 0.065 $\mu\text{F}$	2 mH 0.072 $\mu\text{F}$	1 mH 0.081 $\mu\text{F}$	0.5 mH 0.088 $\mu\text{F}$
Ex ia IIB:	Lo/ Co	100 mH 0.48 $\mu\text{F}$	2 mH 0.52 $\mu\text{F}$	1 mH 0.59 $\mu\text{F}$	0.5 mH 0.683 $\mu\text{F}$
Ex ia IIA:	Lo/ Co	100 mH 1.7 $\mu\text{F}$		1 mH 1.9 $\mu\text{F}$	0.5 mH 2.28 $\mu\text{F}$

### Connection 4-wire (passive)

terminal 4.2 (+), 4.3 (-)

$U_i \leq 30 \text{ V DC}$   
 $l_i$  not applicable when keeping  $U_i$   
 $P_i$  not applicable when keeping  $U_i$   
 $C_i = \text{negligibly small}$   
 $L_i = \text{negligibly small}$