



# 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 TUN 25.0011X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2026-03-06  
Applicant: **ACS Control-System GmbH**  
Lauterbachstraße 57  
84307 Eggenfelden  
Germany  
Equipment: **Hydrostatic filling level transmitter type HP4\*C\* resp. type B4\*C\***  
Optional accessory:  
Type of Protection: **Intrinsic Safety "ia" and "ib"**  
Marking: See Attachment to IECEx TUN 25.0011X issue No.0

Approved for issue on behalf of the IECEx  
Certification Body:

**Andreas Meyer**

Position:

**Deputy Head of the IECEx Certification Body**

Signature:  
(for printed version)

Date:  
(for printed version)

1. This certificate and schedule may only be reproduced in full.
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**TÜV NORD CERT GmbH**  
Hanover Office  
Am TÜV 1, 30519 Hannover  
Germany

**TÜVNORD**



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Page 2 of 3

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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/TUN/ExTR25.0013/00](#)

Quality Assessment Report:

[DE/EPS/QAR23.0009/02](#)



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Certificate No.: **IECEX TUN 25.0011X**

Page 3 of 3

Date of issue: 2026-03-06

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**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

**Description:** The hydrostatic filling level transmitter type HP4\*C\* resp. type B4\*C\* is used to measure levels in liquids.

See attachment to IECEx TUN 25.0011X issue No.0

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

1. The ambient temperature range depending on temperature class resp. surface temperature is to be taken from the operating instructions.
2. Metallic process connection parts have to be included in the local potential equalization.
3. For the hydrostatic filling level transmitter type HP4\*C\* (with and without overvoltage protection) and for type B4\*C\* (with overvoltage protection), the intrinsically safe supply is connected to the earth potential. Potential equalization has to exist in the entire area of the installation of the intrinsically safe circuit.

**Annex:**

[Attachment to IECEx TUN 25.0011X.pdf](#)

**Page 1 of 2**  
**Attachment to IECEx TUN 25.0011X issue No.: 0**

**Description:**

The hydrostatic filling level transmitter type HP4\*C\* resp. type B4\*C\* is used to measure levels in liquids.

**Type code:**

Slim style with enclosure diameter 22mm and extension cable:

HP4\*CX\*\*\*\*\*X0\*\*\*\*-\*\*\*\*\*: Zone 0, Without overvoltage protection

HP4\*CZ\*\*\*\*\*X0\*\*\*\*-\*\*\*\*\*: Zone 1, Without overvoltage protection

HP4\*CZ\*\*\*\*\*A0\*\*\*\*-\*\*\*\*\*: Zone 1, With overvoltage protection

Robust style with enclosure diameter 40mm and extension cable:

B4\*CX\*\*\*\*\*X0\*\*\*\*-\*\*\*\*\*: Zone 0, Without overvoltage protection

B4\*CZ\*\*\*\*\*X0\*\*\*\*-\*\*\*\*\*: Zone 1, Without overvoltage protection

B4\*CZ\*\*\*\*\*A0\*\*\*\*-\*\*\*\*\*: Zone 1, With overvoltage protection

The detailed configuration is in accordance with the operating instructions.

**Electrical data:**

Supply and signal circuit  
(Cable connection: +Li, -Li  
PE/PA shielding)

In type of protection intrinsic safety Ex ia IIC resp. IIIC  
Only for connection to certified intrinsically safe circuits.

Maximum values:

$U_i = 30 \text{ V}$

$I_i = 300 \text{ mA}$

$P_i = 900 \text{ mW}$

For the hydrostatic filling level transmitter type HP4\*C\* (with and without overvoltage protection) and for type B4\*C\* (with overvoltage protection):

Effective internal capacitance  $C_i = 1.3 \text{ nF} + 200 \text{ pF/m} \times L^*$

Effective internal inductance  $L_i = 5 \text{ } \mu\text{H} + 7 \text{ } \mu\text{H/m} \times L^*$

$L^*$ : The length of the cable connection has to not exceed 55 m

For the hydrostatic filling level transmitter type B4\*C\* (without overvoltage protection):

Effective internal capacitance  $C_i = 1.3 \text{ nF} + 200 \text{ pF/m} \times L^*$

Effective internal inductance  $L_i = 5 \text{ } \mu\text{H} + 3 \text{ } \mu\text{H/m} \times L^*$

$L^*$ : The length of the cable connection has to not exceed 100 m

The supply and signal circuit are galvanically connected to each other.

**Thermal data:**

For applications that require EPL Ga or Gb devices, the permissible ambient temperature range on the electronics housing is identical to the permissible medium temperature range on the sensor and is given in the following table depending on the temperature class:

Marking	Ambient temperature range resp. Medium temperature range
	Ex ia IIC T6 Ga Ex ib IIC T6 Gb
Ex ia IIC T5 Ga Ex ib IIC T5 Gb	-20 °C ... +57 °C
Ex ia IIC T4...T1 Ga Ex ib IIC T4...T1 Gb	-20 °C ... +70 °C

**Page 2 of 2**  
**Attachment to IECEx TUN 25.0011X issue No.: 0**

For applications that require EPL Da or Db devices, the permissible ambient temperature range on the electronics housing is identical to the permissible medium temperature range on the sensor and is given in the following table depending on the surface temperature:

<b>Marking</b>	<b>Ambient temperature range resp. Medium temperature range</b>
Ex ia IIIC T <sub>200</sub> 100°C Da	-20 °C ... +35 °C
Ex ia IIIC T <sub>200</sub> 120°C Da	-20 °C ... +55 °C
Ex ib IIIC T80°C Db	-20 °C ... +42 °C
Ex ib IIIC T95°C Db	-20 °C ... +57 °C
Ex ib IIIC T108°C Db	-20 °C ... +70 °C

**Specific Conditions of Use:**

1. The ambient temperature range depending on temperature class resp. surface temperature is to be taken from the operating instructions.
2. Metallic process connection parts have to be included in the local potential equalization.
3. For the hydrostatic filling level transmitter type HP4\*C\* (with and without overvoltage protection) and for type B4\*C\* (with overvoltage protection), the intrinsically safe supply is connected to the earth potential. Potential equalization has to exist in the entire area of the installation of the intrinsically safe circuit.