



# 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 FTZU 15.0007X** Page 1 of 4 [Certificate history:](#)  
Issue 0 (2015-04-16)

Status: **Current** Issue No: 1

Date of Issue: 2020-11-16

Applicant: **Huisman Konstrukce, s.r.o.**  
Nádražní 289  
Sviadnov 739 25  
Czech Republic

Equipment: **Control Box Absolute Measuring System Ex**

Optional accessory:

Type of Protection: **Flameproof enclosure**

Marking: Ex db IIB T3 Gb

Approved for issue on behalf of the IECEx  
Certification Body:

**Dipl. Ing. Lukáš Martinák**

Position:

**Head of the Certification Body**

Signature:  
(for printed version)

Date:

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:

**Fyzikálne technický zkusební ústav  
(Physical -Technical Testing Institute)  
Pikartská 7, 71607 Ostrava - Radvanice  
Czech Republic**





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Manufacturer: **Huisman Konstrukce, s.r.o.**  
Nádražní 289  
Sviadnov 739 25  
**Czech Republic**

Additional  
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 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

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 Reports:

[CZ/FTZU/ExTR15.0007/00](#)

[CZ/FTZU/ExTR15.0007/01](#)

Quality Assessment Report:

[CZ/FTZU/QAR20.0007/00](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Control Box, type AMS Ex is an electrical equipment protected with flameproof enclosure.

The equipment consists of reading head of a linear magneto-resistive sensor, a supply source and electronic circuits for processing and signal output.

The equipment enclosure is made of stainless steel. It is enclosed with plug that forms with enclosure a cylindrical flameproof joint. The plug is fastened to the enclosure via four screws M8 x 40 with head according to ISO 4014. Minimum yield strength of screws is 450 MPa.

The equipment enclosure was verified with breathing devices EXDBDM25SS6 and EXDBDM20SS6, type CT, which are certified components Ex type of protection Ex db IIC Gb, Certificate No. IECEx ITS 13.0049U.

The cable entry into the enclosure provide separately certified Ex cable glands – devices that are screwed into threaded holes in enclosure walls with thread M20 x 1.5 (6H) and M25 x1.5 (6H).

The equipment is manufactured in two variants that differ in an enclosure length and sensor length.

## **Technical parameters:**

Rated voltage: DC 10 V ... 32 V

Input power:  $\leq 10$  W

Ambient temperature:  $-20^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$

Enclosure length: 1834 mm (sensor 1574 mm), or 2758 mm (sensor 2498 mm)

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

Verified values of design flameproof gaps of this equipment differ from relevant minimum or maximum values for flameproof joints of flameproof enclosure mentioned in standard. For information about dimension of flameproof joints it is necessary to contact manufacturer of equipment.



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

1. Change of the manufacturer and applicant.
2. Change of QAR.
3. Assessment according to the new standard editions.
4. New dimensions of the mounting brackets.
5. New connecting cable 4x2x0.75mm<sup>2</sup>.
6. Updated marking.