



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx FTZU 08.0004X

Issue No: 7

Certificate history:

Status: **Current**

Issue No. 7 (2017-08-14)

Issue No. 6 (2015-09-29)

Date of Issue: **2017-08-14**

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Issue No. 5 (2013-02-19)

Issue No. 4 (2012-10-04)

Applicant: **Emerson Process Management GmbH & Co. OHG**
Industriestrasse 1
D-63594 Hasselroth
Germany

Issue No. 3 (2012-09-13)

Issue No. 2 (2012-01-31)

Issue No. 1 (2009-05-04)

Issue No. 0 (2008-04-14)

Equipment: **Flameproof Gas Analyzer type X-STREAM XEFD and X-STREAM X2FD**

Optional accessory:

Type of Protection: **Flameproof enclosure**

Marking:

Ex db IIB + H2 T4 Gb

*Approved for issue on behalf of the IECEx
Certification Body:*

Dipl. Ing. Lukáš Martinák

Position:

Head of 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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

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





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Manufacturer: **Emerson Process Management GmbH & Co. OHG**
Industriestrasse 1
D-63594 Hasselroth
Germany

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

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 electrical 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:

[CZ/FTZU/ExTR08.0004/00](#)
[CZ/FTZU/ExTR08.0004/03](#)
[CZ/FTZU/ExTR08.0004/06](#)

[CZ/FTZU/ExTR08.0004/01](#)
[CZ/FTZU/ExTR08.0004/04](#)

[CZ/FTZU/ExTR08.0004/02](#)
[CZ/FTZU/ExTR08.0004/05](#)

Quality Assessment Report:

[DE/TUR/QAR09.0008/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

X-STREAM gas analyzers are intended to be used as analyzers for industrial purposes. X-STREAM is the process analyzer protected by flame proof enclosure and consists of enclosure body and cover with sight glass. Analyzer type X-STREAM X2FD is equipped with alpha-numeric display and analyzer type XSTREAM XEFD is equipped with the graphic display. The body and cover are made of Al alloy and fastened by bolts. The enclosure has four threaded holes for installation of suitable Ex equipment cable glands or blanking element. The enclosure has eight threaded holes where are installed breathing devices or/and blanking elements. No. of breathing devices depend on particular application of analyzer.

Variant of the analyzer for flammable gas: Flammable gases can be analyzing only with analyzers marked "for analyzing flammable gas".

Particular applications of the analyzers are described in manufacturer user manuals.

Technical parameters:

Ambient temperature:

$-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +55^{\circ}\text{C}$

$-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$ (for vapor recovery application analyzers)

Power supply:

100 V - 240 V, 50/60 Hz, 3 A - 1.5 A

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Verified values of the maximum gaps and minimum constructional length of flameproof joints of this enclosure are different from relevant minimum and maximum values mentioned in standard. To obtain information about joints dimension it is necessary to contact the manufacturer.
2. For the assembly of the parts of flame proof enclosure special fasteners with a minimum property class A*-70 shall be used.
3. The gas path for the sample gas shall be equipped with additional appropriate flame arresters in case of gas pressure above 1100 hPa to 1500 hPa and enclosure has to be equipped with additional breathing device.
4. Take special care of formation of flammable gas at the outlet of breathing and/or purging devices, if the sample gas concentration is above 25% LEL. If need be, such outlets have to end in safe area.
5. Vapour recovery application: Pressure of gases not exceed 1100hPa. Concentration of gases must be below 25% LEL.
6. Appropriated certified Ex equipment cable glands shall be used.
7. Flammable gases can be analyzing only with analyzers marked "for analyzing flammable gas".
8. Flow limiting device has to be installed outside of the gas analyzer. Maximum flow of analyzing flammable gases of pressure not exceed 1100hPa is 1,5 l/min. Maximum flow of analyzing gases of pressure above 1100 hPa to 1500 hPa is 1 l/min, the sum of maximum gas flows in to the enclosure including purge gas is 2 l/min.
9. Depending on the particular application all appropriate safety instructions mentioned in Instruction manuals shall be considered.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 7:

- Evaluation according to the new edition of the standard IEC 60079-1:2014.
- New variant of the analyzer for flammable gases.
- New material of cementing joint is used.
- Ambient temperature of the analyzer has been changed:
Tamb = from -20°C to +55°C
Tamb = from -20°C to +50°C (for vapor recovery application analyzers)

Technical parameters and construction parameters of the product excepting above described modifications remain unchanged