



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 TUN 11.0005 issue No.:1

Certificate history:
Issue No. 1 (2017-8-29)
Issue No. 0 (2011-5-13)

Status: **Current**

Date of Issue: **2017-08-29** Page 1 of 4

Applicant: **Hans Turck GmbH & Co. KG**
Witzlebenstraße 7
45472 Mülheim, Germany
Germany

Equipment: **Evaluation device for flow sensors type FMX-IM-*U*****X**
Optional accessory:

Type of Protection: **Intrinsic safety**

Marking: **[Ex ia Ga] IIC and [Ex ia Da] IIIC**

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

Position: **Head of IECEx Certification Body**

Signature:
(for printed version)

Date:

2017-08-29

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:





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Manufacturer: **Hans Turck GmbH & Co. KG**
Witzlebenstraße 7
45472 Mülheim, Germany
Germany

Additional Manufacturing location(s):

**Werner Turck GmbH &
Co. KG**
Goethestraße 7
58553 Halver
Germany

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

*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:
[DE/TUN/ExTR11.0007/01](#)

Quality Assessment Report:

[DE/PTB/QAR06.0012/03](#)

[DE/PTB/QAR06.0013/04](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The evaluation device for flow sensors type FMX-IM-*U*****X is used for the evaluation of calorimetric flow sensors as well as for the safe galvanic separation between intrinsically safe measuring signals and non intrinsically safe output signals.

The permissible ambient temperature range is -25 °C +70 °C.

See attachment for details.

SPECIFIC CONDITIONS OF USE: NO



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

- Standard update performed
- New type designation

See attachment for details.

Product:

The evaluation device for flow sensors type FMX-IM-*U*****X is used for the evaluation of calorimetric flow sensors as well as for the safe galvanic separation between intrinsically safe measuring signals and non intrinsically safe output signals.

The permissible ambient temperature range is -25 °C +70 °C.

Changes:

The type designation for the evaluation device for flow sensors type FMX-IM-*U*****X has changed (new "special version"; see table row V below e. g. "F" or replaced by "*" in the type designation):

Example:

I	II	III	IV	V	VI
FMX-	IM-	2UPLi	63	F	X

Comment:

I	FMX series	-always FMX	
II	Housing style	-IM	Interface Module
III	Output type	-3UP -3UR -2UPLi	3 PNP outputs 3 relay outputs 2 PNP outputs, 1 current output
IV	Voltage range	-38 -63	20 ...125 V d. c./20 ... 250 V a. c. 20 ...30 V d. c.
V	Special versions	-F	Alphanumeric code, describing device variants that have no influence on explosion protection
VI	LED display	-X	4 status LED`s, LED bar graph

Furthermore, a standard update was performed.

All other details remain unchanged.

Special conditions for safe use

none