



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 DEK 16.0007X

Issue No: 1

Certificate history:

Issue No. 1 (2017-12-12)

Issue No. 0 (2016-09-21)

Status: **Current**

Page 1 of 5

Date of Issue: **2017-12-12**

Applicant: **Transus Instruments BV**
Bloesemlaan 4
3897 LN Zeewolde
The Netherlands

Equipment: **Ultrasonic Flowmeter type UIM Series Flowmeter**

Optional accessory:

Type of Protection: **Ex ia**

Marking:
Ex ia IIC T4 Ga

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

R. Schuller

Position:

Certification Manager

Signature:
(for printed version)

Date:

2017-12-12

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:

DEKRA Certification B.V.
Meander 1051,
6825 MJ Arnhem
The Netherlands





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Certificate No: IECEX DEK 16.0007X

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Page 2 of 5

Manufacturer: **Transus Instruments BV**
Bloesemlaan 4
3897 LN Zeewolde
The Netherlands

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 60079-11 : 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:

[NL/DEK/ExTR16.0010/01](#)

Quality Assessment Report:

[NL/DEK/QAR16.0009/01](#)



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Certificate No: IECEx DEK 16.0007X

Issue No: 1

Date of Issue: 2017-12-12

Page 3 of 5

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The UIM Series Flowmeter consists of an Electronic Unit and a flowmeter body. The electronic unit consists of a main electronic board, various optional I/O boards, an LC display and keypad, and is housed in an aluminium enclosure. The electronic unit connects to up to eight ultrasonic transducers and an optional pressure and/or temperature sensor that may be mounted in the flowmeter body.

Ambient temperature range -40 °C to +60 °C.

Electrical data

For connection details and electrical data, refer to the control drawing 01_0198.

Installation instructions

The instruction manual and the control drawing 01_0198 shall be followed in detail to assure proper and safe operation.

Nomenclature

UIM Electronics assembly model number

UIME-AB-C-DEFGH

A	x	Number of paths (1 to 4)
B	x	Application type
C	x	Meter size
D - SLOT1	0 1 2	Not installed RS485 Option board (01-0020) RS485 IO 4..20mA option board (01-0202)
E - SLOT2	0 1 2	Not installed P/T option board (01-0022) 4..20mA HART option board (01-0203)
F - LCD	0 1	Not installed Installed
G	1 2	M20 cable gland entries 1/2" NPT cable gland entries
H	x	options, not affecting explosion safety



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Page 4 of 5

SPECIFIC CONDITIONS OF USE: YES as shown below:

The transducer must be installed in an enclosure that protects the front face of the transducer against impact. This additional enclosure may be the process pipe.

The enclosure of the UIM Series Flowmeter is made of aluminum, if it is mounted in an area where the use of EPL Ga equipment is required, it must be installed such, that, even in the event of rare incidents, ignition sources due to impact and friction sparks are excluded.

Precautions shall be taken to minimize the risk from electrostatic discharge of painted parts.



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Certificate No: IECEx DEK 16.0007X

Issue No: 1

Date of Issue: 2017-12-12

Page 5 of 5

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

- New option board 4-20 mA with HART communication
- New option board Transducer InterfaceBoard
- Change of Ui
- Change of manufacturer address

Annex:

[control drawing 01_0198_A06.pdf](#)