



# 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](http://www.iecex.com)

Certificate No.:  issue No.:

Status:

Date of Issue: **2012-09-20** Page 1 of 4

Applicant: **GE Infrastructure Sensing**  
1100 Technology Park DR.  
BILLERICA MA 01821 USA  
**United States of America**

Electrical Apparatus: **Digital Flow Transmitter type XMT900-b-c-d-e-f**  
*Optional accessory:* Junction Box type XMT900JB-b-c

Type of Protection: **flameproof enclosure**

Marking: Ex d IIC T6 Gb

*Approved for issue on behalf of the IECEx  
Certification Body:* Dipl.-Ing. Harald Zelm

*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:

**ZELM Explosionsschutz GmbH**  
Siekgraben 56  
D-38124 Braunschweig  
Germany





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Manufacturer: **GE Infrastructure Sensing**  
1100 Technology Park DR.  
BILLERICA MA 01821 USA  
**United States of America**

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 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition: 6

*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/ZLM/ExTR12.0004/00](#)

##### Quality Assessment Report:

[GB/BAS/QAR06.0025/03](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The digital flow transmitter type XMT900 in conjunction with associated certified ultrasonic flow transducers is used for measurement of the physical quantity flow. The device evaluates the signals of the ultrasonic flow transducers and show the information's on the built-in display and convert the signal into different electric signals. The digital flow transmitter type XMT900 consists out of an electronic chamber, as well as a junction chamber for the connection of the power supply and different communication interfaces and a junction chamber for the connection to the ultrasonic transducers. The device can be used with an additional Junction Box of type XMT900JB. This additional housing is used for the connection of the ultrasonic transducers and the main device.

#### Type designation code:

XMT900-b-c-d-e-f or XMT900JB-b-c

- b - Housing (1 - Epoxy coated XMT900 aluminum enclosure (IP67))
- c - Connections (1 - 3/4" NPT or 2 - M20x1.5)
- d - Power (1 - AC or 2 - DC)
- e - Display (0 - no Display or 1 - Display)
- f - I/O (Option Card A or Option Card B)

Permissible ambient temperature range:  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 60^{\circ}\text{C}$

Degree of Protection: IP67, tested with sealed openings, according EN 60529:2000

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. The digital flow transmitter type XMT900 shall be connected only to the BWT System Transducers certified with EC-Type-Examination certificate KEMA 01 ATEX 2051 X.
2. The type of protection depends on the proper selection and installation of the cable glands resp. cable feed troughs and the blanking elements. Only cable glands resp. cable feed troughs and blanking elements with a separate appropriate EC-Type-Examination Certificate according EN 60079-0:2009 and EN 60079-1:2007 shall be used. Especially the ambient temperature range of the cable glands resp. cable feed troughs and blanking elements shall be at least the same as for the digital flow transmitter type XMT900 and the Junction Box type XMT900JB.
3. It is important, that the threads (size and form) of the glands are properly selected according to the appropriate model. The Differentiation is realized by the type code.
4. The degree of protection will be defined by the used cable glands resp. cable feed troughs and blanking elements. The maximum Ingress protection of IP67 is only assured, if appropriate cable glands resp. cable feed troughs and blanking elements are used and proper installed.
5. If the model code c = 1 is used, unused openings have to be closed without the installed thread adapter's. The used blanking elements shall have a thread size of M20x1.5.
6. The instruction manual and the document "Certification & Safety Statements" have to be observed.



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## EQUIPMENT(continued):

### Electrical Data XMT900:

Supply circuit  $U_n = 16 - 30$  VDC resp.  $U_n = 100 - 240$  V @ 47 - 63 Hz

(Terminal Power  $P_n \leq 10$  W

Pin 1 and 2)

Ultrasonic Sensors only for connection to the BWT System Transducers  
(Terminals + -) certified according IECEx KEM 09.0010

Communication  $U_n = 16$  VDC

(Terminals I/O Conn.  $I_n \leq 1$  A

Pin 1 - 8 resp. Pin 1-4)  $P_n \leq 10$  W

