



# 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.: IECEx FMG 14.0021X Issue No: 0 Certificate history:  
Issue No. 0 (2014-06-25)

Status: **Current** Page 1 of 3

Date of Issue: **2014-06-25**

Applicant: **GE Infrastructure Sensing**  
1100 Technology Park Drive  
Billerica, MA 01821  
**United States of America**

Electrical Apparatus: **PanaFlow Z1G and Z2G Ultrasonic Flowmeters**  
*Optional accessory:*

Type of Protection: **Flameproof, d**

Marking: Ex d IIB+H2 T6 Gb Ta = -20°C to +60°C, IP66

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

J. E. Marquedant

*Position:*

Manager, Electrical Systems

*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:

**FM Approvals LLC**  
1151 Boston-Providence Turnpike  
Norwood, MA 02062  
United States of America





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Manufacturer: **GE Infrastructure Sensing**  
1100 Technology Park Drive  
Billerica, MA 01821  
**United States of America**

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 : 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:

[US/FMG/ExTR14.0019/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0025/05](#)



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## Schedule

### EQUIPMENT:

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

***PF8-ZaG-bcd-Lef-g-h-i. PanaFlow Ultrasonic Flowmeter.***

a = Path configuration 1 or 2.

b = Pipe size 03, 04 or 06.

c = Flange rating A or B.

d = Meter body material CS or S6.

e = Electronics enclosure 1 or 2.

f = Power 1 or 2.

g = Comm/IO 1, 2, 3 or 4.

h = Calibration SC, SN, EC or EN.

i = Specials (not affecting product safety) 0 or S.

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

1. Consult the manufacturer if dimensional information on the flameproof joints is necessary.
2. Follow the manufacturer's instructions to reduce the potential of an electrostatic charging hazard.
3. Consult the manufacturer for genuine replacement flange fasteners. M10x35 hexagon socket cap screws of ISO 12.9 DIN912 grade steel (zinc-plated) or better with a minimum yield strength of 135,000 psi are acceptable alternatives.
4. Consult the manufacturer for genuine replacement enclosure/adaptor fasteners. M6x16 and M6x30 hexagon socket cap screws of ISO 12.9 DIN912 grade steel (zinc-plated) or better with a minimum yield strength of 135,000 psi are acceptable alternatives.
5. Care should be taken to avoid creating an ignition hazard due to impact or friction on the titanium transducers which form part of the flameproof enclosure.