



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 FMG 14.0016X Issue No: 0 Certificate history:
Issue No. 0 (2015-02-13)

Status: **Current** Page 1 of 3

Date of Issue: **2015-02-13**

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

Electrical Apparatus: **Model oxy.IQ Oxygen Transmitter**
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking:
Ex ia IIC T4 Ga; $-20^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$
Energy Limitation Parameters:
Ui \leq 28V, Ii \leq 150mA, Pi \leq 1.05W, Ci = 0, Li = 0.

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

James 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**
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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:

[US/FMG/ExTR14.0016/00](#)

Quality Assessment Report:

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



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Model oxy.IQ is a two-wire, loop-powered transmitter for measuring oxygen in ten ppm ranges and seven percentage ranges. The Model oxy.IQ Transmitter contains one of five different oxygen cells. The cells are specified to be the OX-1, OX-2, OX-3, OX-4 and the OX-5. The type of oxygen cell determines the range of measurement. The measured oxygen is converted to a mA signal for delivery to the control equipment located in the non-hazardous area.

The Model oxy.IQ Transmitter's electronics are contained inside of a metallic housing having a polymeric display window. The base of the housing has an oxygen cell holder which has a threaded joint for replacement of the oxygen cell. The polymeric window display which is approximately 1" by 3/4". The housing, including the sensor, is approximately 4.1" in height, by 2.75" in width, and 2.05" in depth.

Operation Temperature Ranges: The ambient operating temperature range of the Model oxy.IQ Transmitter is -20°C to +60°C. The Transmitter is specified for use in normal atmospheric conditions.

The energy limitation parameters for type of protection intrinsic safety are: $U_i \leq 28V$, $I_i \leq 150mA$, $P_i \leq 1.05W$, $C_i = 0$, $L_i = 0$.

CONDITIONS OF CERTIFICATION: YES as shown below:

The Model oxy.IQ Oxygen Transmitter will not pass the 500Vrms dielectric strength test. This must be taken into account during installation.