



# 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 LCI 08.0039X** issue No.: **2**  
Status: **Current**  
Date of Issue: **2013-08-09** Page 1 of 4

Certificate history:  
Issue No. 2 (2013-8-9)  
Issue No. 1 (2010-5-21)  
Issue No. 0 (2008-8-18)

Applicant: **Fisher Controls International, Inc.**  
1612 South 17th Avenue  
Marshalltown, Iowa 50158  
United States of America

Electrical Apparatus: **Flameproof Series Flow Computer**  
Optional accessory:

Type of Protection: **"d"**

Marking: Fisher Controls International, Inc.  
or Bristol, Inc. dba Remote Automation Solutions  
Address : ...  
Type : Flameproof FB 100 Series flow computer Model :W40149  
Serial number : ...  
Year of construction : ...  
Ex d IIB T5 Gb  
Tamb : -40°C to +75°C  
IECEx LCI 08.0039X  
WARNING : DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE  
PRESENT

Approved for issue on behalf of the IECEx  
Certification Body:

Michel EQUI

Position:

Certification Manager

Signature:  
(for printed version)

Date:

2013/08/09

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:

**Laboratoire Central des Industries Electriques (LCIE)**  
33 Avenue du General Leclerc  
FR-92260 Fontenay-aux-Roses  
France

Documents relative to LCIE certification activities (Certificates,  
QARs, ExTRs) can be registered under the references "LCI" or  
"LCIE".





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Manufacturer: **Fromex S.A. de C.V.**  
Parque Industrial Finsa  
Av Industrias No. 6025  
Nuevo Laredo, Tamaulipas  
**Mexico**

Additional Manufacturing location  
(s):

**Bristol, Inc. dba Remote  
Automation Solutions**  
1100 Buckingham Street  
Watertown, Connecticut  
06795  
United States of America

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:

FR/LCI/ExTR08.0044/05

##### Quality Assessment Report:

FR/LCI/QAR07.0011/02



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## Schedule

### EQUIPMENT:

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

This apparatus is an electronic flow computer based on pressure and temperature measures of fluid.

Rated voltage : 8V up to 28V

Dissipated Power : 18W

An option allows to equip this apparatus by a LCD screen. Another option is available to get a pulse interface module on the apparatus. The device includes an optional LCD Cover assembly, which includes a glass viewing window.

Free internal volume is 1640 cm<sup>3</sup> for standard apparatus, 1570 cm<sup>3</sup> for apparatus with LCD screen option and 1725 cm<sup>3</sup> for apparatus with pulse interface module.

The device has threaded covers, which form part of the flameproof design. The covers are retained to the enclosure via cover clamps as depicted on the W40149 certification drawing.

The device utilizes a pressure transducer, which is assembled to the product via interfacing threads. These threads form part of the flameproof design. This threaded joint is locked via a hex socket locking screw per sheet 2 of certification drawing W40149.

When the Pulse Interface Module Option Assembly is used, a Sensor Locking Clip and hex socket screw are installed on P1 and P2 on Sensor Housing W40118 as a locking device. This will require a special tool for removal.

When a pressure transducer is not installed, a blanking cover or plate is used to cover the enclosure opening.

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

Flameproof joints values are specified on the manufacturer's drawing referenced W40149.



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

Initial issue : (2008/08/18)

Initial issue of the certificate n°IECEx LCI 08.0039 according to the following standards: IEC 60079-0 : Ed.3.1 and IEC 60079-1 : Ed.5

Issue01 : (2010/05/21)

Normative update according to the following standards : IEC 60079-0 : Ed.4 and IEC 60079-1 : Ed.6.

Issue02 :

Normative update according to IEC 60079-0 : Ed.6.0 and IEC 60079-1 : Ed.6 standards.

Addition of an optional pulse interface module.

Addition of a new manufacturer: Bristol, Inc. dba Remote Automation Solutions.