



# 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 SIR 10.0028X** issue No.:2

Status: **Current**

Date of Issue: **2015-04-21** Page 1 of 5

Certificate history:  
Issue No. 2 (2015-4-21)  
Issue No. 1 (2012-12-18)  
Issue No. 0 (2010-5-7)

Applicant: **Bristol Inc.**  
dba Remote Automation Solutions  
1100 Buckingham St.  
Watertown  
Connecticut 06795  
**United States of America**

Electrical Apparatus: **Model W40190 Flow Computer (FB107)**  
*Optional accessory:*

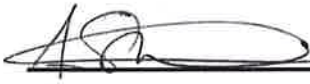
Type of Protection: **Non-sparking**

Marking: **Ex nA IIC T4 Gc**

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

Position: **Certification Manager**

Signature:  
(for printed version)

  
2015-04-21

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:

**SIRA Certification Service**  
**CSA Group**  
Unit 6, Hawarden Industrial Park  
Hawarden  
Deeside  
CH5 3US  
United Kingdom

**sira**  
CERTIFICATION





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Manufacturer: **Fromex S. A. de C. V.**  
A Division of Emerson Process Management  
Avenida Industrias No 6025  
Zd 88275 Nueva Laredo  
Tamaulipas  
**Mexico**

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 60079-15 : 2010** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition: 4

*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:

GB/SIR/ExTR10.0092/00

GB/SIR/ExTR12.0263/00

GB/SIR/ExTR15.0101/00

##### Quality Assessment Report:

FR/LCI/QAR07.0011/00

FR/LCI/QAR07.0011/01

FR/LCI/QAR07.0011/02



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## Schedule

### EQUIPMENT:

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

The Model W40190 Flow Computer is made up of a number of different types of individual modules mounted to a common backplane assembly or expansion backplane assembly. The equipment contains no sparking or arcing parts with the exception of the 6 Channel DO Relay that utilizes sealed relay devices.

The Model W40190 Flow Computer is not suitable for direct installation within the field. It is intended to be installed within an IECEx certified IP54 or better enclosure.

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

- i. Connections made to the LOI port (D-Type Connector) shall be mechanically secured in place with suitable screw connections to prevent loosening or disconnection during use.
- ii. The RJ45 connection (Ethernet Connection) on the Enhanced Communications Module shall have a mating connector with a functioning securing clip to prevent loosening or disconnection during use.
- iii. The Model W40190 Flow Computer shall be installed within an enclosure that is suitably-certified for the zone of use.
- iv. The area in which the equipment is used shall be a minimum of Pollution degree 2 as defined in IEC 60664-1, i.e. the environment should not contain conductive pollution and the equipment shall be installed in an indoor or sheltered location.
- v. An electrical strength test shall be undertaken on a fully-installed Model W40190 Flow Computer. The test should be conducted between electrical connections 'AUX PWR IN', 'DVS', and 'DISPLAY' short circuited together and the metal base plate (Adaptor Panel) or local plant earth. One of the following voltages should be used:
  - a. 500 V r.m.s. (+5%, -0%) for 60 seconds
  - b. 700 V d.c. (+5%, -0%) for 60 secondsThe maximum current flowing during the test shall not exceed 5 mA; there shall be no breakdown or flashover.



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

<b>Issue 1 – this Issue introduced the following changes:</b>	
1	The addition of a new IEC 62591 WiHart Module, part number: W30381X0072 was approved.
2	The change of Applicants name and address from Fisher Controls a division of Emerson Process Management Remote Automation Solutions, 1612 South 17 <sup>th</sup> Avenue, Marshalltown, Iowa 50158, USA to Bristol, Inc. dba Remote Automation Solutions, 1100 Buckingham St., Waterdown, Connecticut, 06795, and the inclusion of an additional site Fromex S. A. de C. V. in Tamaulipas, Mexico was approved.
3	The recognition of minor drawing modifications; the introduction of new drawings, additional holes on the PCB, and the change of capacitor construction from tantalum to ceramic; these amendments are administrative or involve changes to the design that do not affect the aspects of the product that are relevant to explosion safety.
<b>Issue 2 – this Issue introduced the following change:</b>	
1.	Following appropriate assessment to demonstrate compliance with the latest technical knowledge, the documents previously, IEC 60079-0:2007 Ed 5 and IEC 60079-15:2005 Ed.3, were replaced by IEC 60079-0:2011 Ed 6 and IEC 60079-15:2010 Ed.4.



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**Additional information:**

**The following Conditions of Manufacture apply:**

- i. For all Model W40190 Flow Computer installed on metal base plates, a routine electrical strength test shall be undertaken, (without breakdown or flashover) in accordance with IEC60079-15 clause 34.2, on 100% of all production. The test should be conducted between electrical connections 'AUX PWR IN', 'DVS', and 'DISPLAY' short circuited together and the metal base plate (Adaptor Panel). One of the following voltages should be used:
  - a. 500 V r.m.s. (+5%, -0%) for 60 seconds
  - b. 700 V d.c. (+5%, -0%) for 60 secondsAlternatively, the test can be undertaken for a period of 100 ms at a test voltage of 1.2 times the values specified above.