



1 **TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 11ATEX4040X** Issue: **0**

4 Equipment: **DL8000 Preset (Model W40208)**

5 Applicant: **Bristol Inc. Trading as:  
Remote Automation Solutions, A Division of Emerson Process  
Management**

6 Address: **1100 Buckingham Street  
Watertown  
Connecticut 06795  
USA**

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service certifies that this equipment has been found to comply with the Essential Health and Safety Requirements that relate to the design of Category 3 equipment, which is intended for use in potentially explosive atmospheres. These Essential Health and Safety Requirements are given in Annex II to European Union Directive 94/9/EC of 23 March 1994.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN 60079-0:2006      EN 60079-0:2009 (for marking purposes)      EN 61241-0:2006  
EN 60079-15:2005                EN 61241-1:2004

10 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment, and not to specific items of equipment subsequently manufactured.

12 The marking of the equipment shall include the following:



II 3 GD  
Ex nA IIC T4 Gc  
Ta = -20°C ≤ Ta ≤ +70°C

D R Stubbings BA MIET  
Certification Manager

Project Number 23028

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## SCHEDULE

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#### 13 DESCRIPTION OF EQUIPMENT

DL8000 Preset (Model W40208) is designed to determine various physical measurements associated with petroleum, industrial chemicals or other products and control the blending and mixing of appropriate additives through preset recipes.

The Preset comprises a stainless steel prefabricated enclosure with an aluminium front cover, which is hinged on one side and clipped together with two lockable draw latches. The cover and enclosure are sealed with a gasket. Electrical access for communications is made via a military style locking connector on the bottom of the enclosure. There are three holes on the bottom wall for provision of suitably-certified conduit hubs or cable glands etc.

The front cover has a suitable cut-out, protected by a plastic bezel, which is covered with a Lexan window through which the display can be seen. The plastic bezel also contains a number of magnetic/hall-effect switches that allows the operator to communicate with the equipment. The bezel and window are suitably sealed to prevent ingress.

The enclosure contains a suitably modified power supply Type TSP 070-112EX manufactured by Traco Electronic AG and covered by Certificate No LCIE 07ATEX0004U, a Model W40135 Flow Computer (also known as the ROC809), manufactured by Fisher Controls or Micro Motion Inc to certificate number Sira 05ATEX4046X, together with additionally approved modules and boards. The Model W40135 (ROC809) includes all the currently-certified modules with the exception of the Foundation Fieldbus Interface CPU and H1 Cards.

#### 14 DESCRIPTIVE DOCUMENTS

##### 14.1 Drawings

Refer to Certificate Annexe.

##### 14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	09 March 2011	R23028A/00	The release of the prime certificate.

#### 15 SPECIAL CONDITIONS FOR SAFE USE

- 15.1 Items of the equipment are made of plastic. By virtue of its shape, design and position of use, it is assessed that the equipment is not considered to be an electrostatic risk; however, the equipment must not be installed in a position where it may be subjected to an excessive air/fluid flow or be subjected to rubbing that may cause an electrostatic build-up.
- 15.2 The DL8000 Preset (Model W40208) shall withstand a 500Vrms test voltage to earth or frame for 1 minute.
- 15.3 Electrical entries into the enclosure shall be made via either suitably-certified conduit entries or glands that will maintain the IP54 rating of the enclosure.
- 15.4 The arrangement of the Model W40135 Flow Computer modules shall be designed such that the maximum power that may be drawn from the TSP 070-112EX power supply is 38W.

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**SCHEDULE**

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- 15.5 Customer connections to the earth terminals must be made via spade or eyelet connectors, crimped or soldered to the field wiring.
- 15.6 The enclosure should not be subjected to intense sunlight without protecting the plastic display cover.
- 16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (EHSRs)**  
The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed reports listed in Section 14.2.
- 17 **CONDITIONS OF CERTIFICATION**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of Type Examination Certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

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# Certificate Annexe

Certificate Number: Sira 11ATEX4040X  
Equipment: DL8000 Preset (Model W40208)  
Applicant: Bristol Inc. Trading as:  
Remote Automation Solutions, A Division of  
Emerson Process Management



## Issue 0

Number	Sheet	Rev.	Date (Sira Stamp)	Description
W40208	1 to 4	A	07 Mar 11	Model W40208 DL8000 Enclosure Assembly
W48086	1 of 1	A	07 Mar 11	ACIO Module Assembly
W38286	1 to 4	C1	07 Mar 11	ACIO Schematic, Main Board
W38294	1 & 2	C1	07 Mar 11	ACIO Schematic, Daughter Board
W48081	1 of 1	A	07 Mar 11	Display Board Assembly
W38305	1 to 3 + Index	C1	07 Mar 11	Display Board Schematic
7FSC1054	1 to 4	D2	07 Mar 11	APM Module Schematic, Main Board
7FSC1055	1 to 3	C1	07 Mar 11	APM Module Schematic, Daughter Board
BE-12586	1 of 1	B	07 Mar 11	Keyboard Assembly Schematic
CE-12584	1 of 1	F	07 Mar 11	Keyboard Assembly PCA

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