



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 08ATEX1063X** Issue: **5**

4 Equipment: **DL8000 (Model W40176)**

5 Applicant: **Bristol, Inc.** **Fromex S. A. de C. V.**
dba Remote Automation Solutions

6 Address: **1100 Buckingham St.** **Avenida Industrias N°6025**
Watertown **Zd 88275 Nuevo Laredo**
Connecticut 06795 **Tamaulipas**
USA **Mexico**

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

8 Sira Certification Service, notified body number 0518 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

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 to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012

EN 60079-1:2014

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2 G

Ex db IIB T6 Gb IP66 (T_a = -40°C to +65°C)

(The labelling of these products includes the comment "(-20 TO +65°C FOR LCD DISPLAY)", for clarification, this restriction only refers to the practical operation of the LCD Display.)

Project Number 70115710

N Jones
Certification Manager

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 08ATEX1063X
Issue 5

13 DESCRIPTION OF EQUIPMENT



The DL8000 comprises a two piece cast aluminium enclosure, lid and body. These form a flanged flamepath, which are secured together by sixteen M10 stainless steel hexagonal socket head screws. The lid incorporates a window, which also forms a flanged flamepath, and a keypad. The keypad utilises 'hall effect' sensors. The body of the enclosure is equipped with two 1-11 1/2" NPSM and one 2-11 1/2" NPSM cable entries in the bottom of the enclosure. These may be optionally fitted with M25 and M50 Certified Conduit Adaptors.

The microprocessor-based controller fitted internally is covered on a previous certificate Sira 05ATEX4046X.

The electrical ratings are as follows: - 100/240 VAC, 50/60 Hz, 0.75 A max.

The DL8000 has been tested to IP66

Variation 1 - This variation introduced the following changes:

- i. The addition of the Series 2 CPU module.
- ii. The recognition of minor drawing changes associated with W38286, W38294, W38305, 7FSC1024, 7FSC1048, 7FSC1050, 7FSC1055 and W40176.

Variation 2 - This variation introduced the following changes:

- i. The introduction of an AC input line filter and associated schematic changes, this includes the addition of a 16 bit quad analogue input module; in consequence drawings 7FSC1047, 7FSC1028, 7FSC1004 and 7FSC1036 have been replaced by drawings 7FSC1070, 7FSC1069, 7FSC1067, and 7FSC1044 respectively.
- ii. The introduction of a clarifying note in the marking section that recognises a practical limitation that restricts the use of LCD Displa.

Variation 3 - This variation introduced the following changes:

- i. The recognition of a change of company name from Fisher Controls, 1612 South 17th Avenue, Marshalltown, Iowa to that currently shown.
- ii. The DL8000 display part number was changed from P/N W15000X0012 to P/N W15513X0012 because of the manufacturing discontinuity and therefore the schematic diagram (W38305) and the pcb assembly layout (W48081) of the DL8000 display were updated.

Variation 4 - This variation introduced the following changes:

- i. It was noted that the case and cover are chromated and painted. Paint thickness is typically 0.076 mm.
- ii. The introduction of an alternative label that shows additional information that applies to the product, but is not required by this certification.
- iii. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, the document previously listed in section 9, EN 60079-0:2006, was replaced by EN 60079-0:2012, the markings in section 12 were updated accordingly and the condition of certification was amended to recognise the new standard.



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Variation 5 - This variation introduced the following changes:

- i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-1:2007 was replaced by EN 60079-1:2014, as a result, the markings were updated, a Specific Condition of Use was introduced and therefore an 'X' suffix was added to the certificate number.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report No.	Comment
0	15 April 08	R59L17575A	The release of the prime certificate.
1	10 December 08	R59L19257A	The introduction of Variation 1.
2	14 June 10	R22480A/00	The introduction of Variation 2
3	12 September 12	R28234A/00	The introduction of Variation 3
4	06 January 2015	R70018293A	The introduction of Variation 4
5	27 April 2017	R70115710A	This Issue covers the following changes: <ul style="list-style-type: none"> • EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i> • The introduction of Variation 5.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 The fastener with yield stress greater than 240 N/mm² shall be used.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF MANUFACTURE

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 An electrical strength test of (1000 + 2 Un) V, rms. Shall be applied, for at least 10 seconds to a maximum of 60 seconds, as required by clause 26.4.5.1 of IEC 60079-0: 2012.

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Sira Certification Service
Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org

Certificate Annexe



Certificate Number: Sira 08ATEX1063X
 Equipment: DL8000
 Applicant: Fisher Controls
 A Division of Emerson Process Management

Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Description
W38305	1 to 3	C	26 Feb 08	DL8000 display
W38294	1 of 1	B	26 Feb 08	ACIO daughter board
W38286	1 to 3	B	26 Feb 08	ACIO main board
7FSC1055	1 to 3	C	26 Feb 08	APM Module Personality card daughter board
7FSC1054	1 to 4	D2	26 Feb 08	APM module main board
7FSC1050	1 to 3	E	26 Feb 08	Hart module daughter board
7FSC1048	1 to 4	G	26 Feb 08	Hart module
7FSC1047	1 to 4	D	26 Feb 08	AO 16 bit high side
7FSC1031	1 to 5	H	26 Feb 08	100 Ohm platinum 4 wire dual channel RTD input
7FSC1030	1 to 2	D	26 Feb 08	RS232
7FSC1028	1 to 2	D1	26 Feb 08	16 bit pulse input
7FSC1027	1 to 2	H	26 Feb 08	RS-485/MVS
7FSC1024	1 to 4	G1	26 Feb 08	16 bit quad analogue input module
7FSC1020	1 to 6	J	26 Feb 08	Backplane connectors
7FSC1019	1 to 6	L5	26 Feb 08	CPU ROC 800
7FSC1004	1 to 3	D1	26 Feb 08	16 bit quad analogue voltage input
7FSC1003	1 to 2	G	26 Feb 08	5 Channel EM relay output board
7FSC1002	1 to 2	F	26 Feb 08	5 Channel DC output board
7FSC1001	1 to 3	F	26 Feb 08	8 Channel DC input board
W28142	1 of 1	B	26 Feb 08	License key
W40176	1 to 4	A	19 Mar 08	Model W40176 DL8000
7FSC1036	1 to 3	H	26 Feb 08	Power supply

Issue 1

Drawing	Sheets	Rev.	Date (Sira Stamp)	Description
W38286	1 to 4	C1	02 Dec 08	AC I/O main board
W38294	1 to 2	C1	02 Dec 08	AC I/O daughter board
W38305	1 to 4	C1	02 Dec 08	DL8000 display
7FSC1024	1 to 4	G2	02 Dec 08	16 bit quad analogue input module
7FSC1048	1 to 4	G2	02 Dec 08	Hart module
7FSC1050	1 to 3	E2	02 Dec 08	Hart module daughter board
7FSC1055	1 to 3	C1	02 Dec 08	APM Module personality card daughter board
W40176	1 to 4	C	02 Dec 08	Model W40176 DL8000
7FSC1059	1 to 5	E1	02 Dec 08	CPU ROC800 Series 2

Issue 2

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
7FSC1070	1 to 4	A	26 May 10	AO 16 bit high side
7FSC1069	1 to 2	B	26 May 10	16 Bit pulse input
7FSC1067	1 to 3	A	26 May 10	16 Bit quad analogue voltage input
7FSC1065	1 to 3	B1	26 May 10	16 Bit quad analogue input module
7FSC1044	1 to 3	C1	26 May 10	Power supply
7FSC1003	1 to 2	H	26 May 10	5 Channel EM relay output board
W40176	1 to 4	E	14 Jun 10	Model W40176 DL8000

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Certificate Annexe



Certificate Number: Sira 08ATEX1063X
Equipment: DL8000
Applicant: Fisher Controls
A Division of Emerson Process Management

Issue 3

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
W20427	1 of 1	B	12 Sep 12	DL8000 Nameplate ATEX/IECEX
W38305	1 to 3	D0	16 Jul 12	DL8000 Display
W48081	1 of 1	B	16 Jul 12	Type DL 8000 Printed circuit board assy
W40176	1 of 4	F	12 Sep 12	Model W40176
W40176	2 of 4	D	12 Sep 12	Model W40176
W40176	3 of 4	B	12 Sep 12	Model W40176
W40176	4 of 4	E	12 Sep 12	Model W40176

Issue 4

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
W20397	1 of 1	F	17 Dec 14	DL8000 Nameplate, ATEX/IECEX
W20427	1 of 1	C	17 Dec 14	DL8000 Nameplate, ATEX/IECEX Non Mid version
W40176	1 of 4	G	17 Dec 14	Model W40176 DL8000 Series preset, ATEX/IECEX, Flameproof Certification Drawing
W40176	2 of 4	E	17 Dec 14	Model W40176 DL8000 Series preset, ATEX/IECEX, Flameproof Certification Drawing
W40176	3 of 4	B	17 Dec 14	Model W40176 DL8000 Series preset, ATEX/IECEX, Flameproof Certification Drawing
W40176	4 of 4	F	17 Dec 14	Model W40176 DL8000 Series preset, ATEX/IECEX, Flameproof Certification Drawing

Issue 5

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
W20397	1 of 1	G	21 Mar 17	DL8000 Nameplate, ATEX/IECEX
W20427	1 of 1	D	21 Mar 17	DL8000 Nameplate, ATEX/IECEX Non Mid version
W40176	1 of 4	H	21 Mar 17	Model W40176 DL8000 Series preset, ATEX/IECEX, Flameproof Certification Drawing
W40176	4 of 4	G	21 Mar 17	Model W40176 DL8000 Series preset, ATEX/IECEX, Flameproof Certification Drawing

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Sira Certification Service

Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org