



1 **TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 08ATEX4006** Issue: **8**

4 Equipment: **Logix Series 3200 Digital Positioner models IQ and MD**

5 Applicant: **Flowserve Corporation**

6 Address: **1350 North Mountain Springs Parkway
PO Box 2200
Springville
Utah 84663 – 0903
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 60079-15: 2005 EN 61241-0: 2006 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 G D

Ex nL nA IIC T4 (Ta = -52°C to +85°C)

Ex nL nA IIC T5 (Ta = -52°C to +55°C)

Ex tD A22 T95°C (Ta=-52°C to +80°C)

Project Number 26487

C Ellaby
Deputy Certification Manager

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13 DESCRIPTION OF EQUIPMENT

The Logix Series 3200 Digital Positioner is a two-wire 4-20mA single/double digital positioner. It combines piezo-valve technology with inner-loop feedback to provide control. The 3200 is designed to be configured through the local user interface. LED status lights allow the user to determine the condition of the device. The housing for the Logix 3200 consists of a single enclosure with a main electronics compartment and a separate customer interface compartment. The housing is constructed from either stainless steel or aluminum, which contains less than 6% magnesium. The enclosure is essentially cylindrical in shape with a threaded cover for the main compartment and the customer interface compartment. The cover for the main compartment has a viewing window. The base of the housing has two 1/2" - 14 NPT conduit openings, a cylindrical rotary shaft and two pneumatic output ports. Valtek is a Flowserve trade name. The Model Logix 3200 comprises the following: Main circuit board, Pressure sensor board, Interface board, Hall effect sensor, Analog board, Piezo Relay, Feedback potentiometer and Collector board.

The rated input voltage is 30 V.

A remote mount option is used where the positioner may be inaccessible when mounted to the valve/actuator package or when other operating factors may affect the positioner operation. The remote feedback unit is wired to the positioner by either conduit or cable glands.

The Low Profile Remote Mount is constructed from a cylindrical metal enclosure of either aluminium or stainless steel with a 1/2" -14 NPT entry containing a potentiometer.

Variation 1

- i. The equipment may now be used in the presence of combustible dust; the marking of the equipment has been amended accordingly and the list of documents that assures Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, now includes the following
EN 61241-0: 2006, EN 61241-1: 2004 and EN 61241-11: 2006

Variation 2 - This variation introduced the following change:

- i. The introduction of a new, mylar, multiple concept protection nameplate.

Variation 3 - This variation introduced the following changes

- i. The mylar, multiple concept protection nameplate was revised to include the designation of software level installed.

Variation 4 - This variation introduced the following changes:

- i. The introduction of a die cast machined version.
- ii. To acknowledge that the non critical components, R3 and R6, may be configured differently when manufacturing the PCB assembly.
- iii. The recognition of minor drawing modifications; 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.



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Variation 5 - This variation introduced the following change:

- i. The recognition of minor drawing modifications to change the Notified Body number from 0158 to 0518.

Variation 6 - This variation introduced the following change:

- i. The recognition of a lower ambient temperature range.

Variation 7 - This variation introduced the following change:

- i. The addition of a new, optional Analog Output Board

Variation 8 - This variation introduced the following change:

- i. The description of the equipment has been changed, 3200 IQ replaced by 3200 and optional 4-20 mA analog output added.
- ii. The introduction of a remote mount option.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report No.	Comment
0	3 March 2008	R59A17178A	The release of the prime certificate.
1	17 November 2008	R52A18883A	The introduction of Variation 1.
2	14 August 2008	R51A20752A	The introduction of Variation 2.
3	30 December 2009	R21470A	The introduction of Variation 3.
4	4 February 2010	R21629A/00	The introduction of Variation 4.
5	03 September 2010	R21793A/00	The introduction of Variation 5.
6	09 September 2010	R23287A/00	The introduction of Variation 6.
7	28 January 2011	R23594A/00	The introduction of Variation 7.
8	13 March 2013	R26487A/00	The introduction of Variation 8.

15 SPECIAL CONDITIONS FOR SAFE USE

None

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.

17.3 The completed apparatus shall be subjected to the 500 V r.m.s test for at least 1 minute, or 1.2 x 500 Vr.m.s. for at least 100ms, between circuit and frame without breakdown of insulation occurring.

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Sira Certification Service

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Certificate Annexe

Certificate Number: Sira 08ATEX4006
Equipment: Logix Series 3200 Digital Positioner models IQ and MD
Applicant: Flowserve Corporation



Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Description
245104	1 of 1	0	18 Feb 08	General Assembly
199676	1 of 1	4	18 Feb 08	Nameplate
126174	1 of 1	1	18 Feb 08	Cover Main Housing
130913	1 of 1	1	18 Feb 08	Window LED display
137748	1 of 1	0	18 Feb 08	Cover Customer Interface
141390	1 of 1	2	18 Feb 08	Cover Driver Module
192039	1 of 1	0	18 Feb 08	Manifold Driver Module
198775	1 to 2	4	18 Feb 08	Housing Logix 1000IQ
191640	1 to 3	6	18 Feb 08	Logix 1200IQ Power/Control/Auxiliary
192452	1 of 3	5	18 Feb 08	PCBA Assembly Drawing Main Board
192452	2 & 3 of 3	4	18 Feb 08	PCBA Assembly Drawing Main Board
191641	1 to 11	5	18 Feb 08	Main Board Fabrication
192452.000.000	1 to 21	7	18 Feb 08	Bill of Materials Main Board
191647	1 of 1	0	18 Feb 08	Logix 1200IQ Pressure Sensor Board
192456	1 & 2	2	18 Feb 08	PCBA Assembly Drawing Pressure Sensor Board
191648	1 to 7	2	18 Feb 08	Pressure Sensor Board Fabrication Drawing
192456.000.000	1 to 3	3	18 Feb 08	Bill of Materials Pressure Sensor Board
218870	1 of 1	1	18 Feb 08	User Interface Board Schematic Drawing
215745	1 to 3	3	18 Feb 08	PCBA Top Assembly Drawing User Interface Board
215744	1 to 7	0	18 Feb 08	User Interface Board Fabrication Drawing
215745.000.000	1 to 4	2	18 Feb 08	Bill of Materials User Interface
192865	1 of 1	0	18 Feb 08	Logix 1200IQ Hall Sensor T
192867	1	4	18 Feb 08	PCBA Hall Sensor T Board
192866	8	1	18 Feb 08	Hall Sensor T Board
192868.999.000	1 to 2	04	18 Feb 08	Bill of Materials Hall Sensor Assembly
191638	1 of 1	3	18 Feb 08	Logix 3200IQ Analogue Output Board
192458	1 to 2	4	18 Feb 08	Logix 3200IQ Analogue Output Board Top PCBA
191639	1 to 9	3	18 Feb 08	Logix 3200IQ Analogue Output Board Fab. Drg
192458.000.000	1 to 5	05	18 Feb 08	Bill of materials Analog Output Logix 1200IQ
221869	1 of 1	0	18 Feb 08	PCBA Piezo Board
221867	1 of 6	0	18 Feb 08	Piezo PCB
221868	1 of 1	0	18 Feb 08	Piezo Board Schematic

Issue 1

Drawing	Sheets	Rev.	Date	Title
199676	1 of 1	5	09 Oct 08	Nameplate, Logix 3200 IQ I.S.

Issue 2

Drawing	Sheets	Rev.	Date	Title
255410	1 of 1	0	11 Aug 09	Multiple concept protection nameplate

Issue 3

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
255410	1 of 1	1	17 Dec 09	Multiple concept protection nameplate

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Certificate Annexe

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Equipment: Logix Series 3200 Digital Positioner models IQ and MD
Applicant: Flowserve Corporation



Issue 4

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
130913	1 of 1	2	25 Jan 10	Window, Led Display, .25 Thick Glass, Logix 1000 Digital Positioner
141390	1 to 2	3	25 Jan 10	Cover, Driver Module Logix 1000 Digital Positioner
192452	1 to 3	7	25 Jan 10	PCBA, Main Board, Logix 3200IQ
192456	1 to 3	3	25 Jan 10	PCBA, Top Assembly, Pressure Sensor Board, Logix 3200IQ
198775	1 to 2	6	25 Jan 10	Housing, Logix 3000 Series Digital Positioner Die-Cast

Issue 5

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
255410	1 of 1	2	13 Jul 10	Nameplate, Logix 3200, Sira, ATEX, Ex d, Ex tD, Ex ia, Ex iaD

Issue 6

Drawing	Sheet	Rev.	Date	Title
255410	1 of 1	3	09 Sept 10	Nameplate, Logix 3200

Issue 7

Drawing	Sheets	Rev.	Date	Title
255446	1 of 1	0	08 May 09	Schematic Logix 520MD Analog Output Board
255448.000.000	1 to 7	00	18 Oct 10	Bill of Material
255447	1 to 9	0	08 May 09	PCB Fabrication Logix 3200IQ Analog Output Board
255448	1 to 3	0	15 May 09	PCB Assembly Logix 520MD Analog Output

Issue 8

Drawing	Sheets	Rev	Date (Sira Stamp)	Title
199767	1 of 1	6	09 Jan13	Nameplate, Logix 3200 IS Ex ia IIC, Cenelec, ATEX, 3200-15
291524	1 of 1	0	09 Jan13	Sticker, Mylar Logix 3200 IS Remote Mount Ex ia IIC Cenelec, ATEX, 3200-15
301518	1 of 1	0	09 Jan13	Potentiometer/Terminal Block Wiring, Logix Low Profile Remote Mount
230070	1 of 1	0	09 Jan13	Wire Harness Remote Mount Positioner Logix 3000 Series
264496	1 of 1	0	09 Jan13	Housing Machining Logix Low Profile Remote Mount Cover
264497	1 of 1	0	09 Jan13	Cover Machining Logix Low Profile Remote Mount Cover
198736	1 to 4	3	09 Jan13	Connection Diagram, Logix 3200 IQ Digital Positioner (Pages 3 and 4 only)
262816	1 of 1	0	09 Jan13	Logix 30000 Series with Low Profile Remote Mount Option

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