1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 09ATEX2162X** Issue: **4**

4 Equipment: **SRX - Valve Position Monitor**

5 Applicant: **Imtex Controls Limited**

6 Address: Unit 4
Tenth Avenue
Deeside Industrial Park
Flintshire CH5 2UA
UK

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

8 CSA Group Netherlands B.V., Notified Body Number 2813 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 60079-0:2006 EN 60079-11:2007
IEC 60079-0:2007 Ed 5 (was used for guidance in respect of marking)

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 2G
Ex ia IIC T4/T5/T6 Gb

Note: the temperature class and ambient temperature range depends on the construction of the devices, see Equipment Description.

Project Number 1759

Signed:

Title: Director of Operations

CSA Group Netherlands B.V.
Utrechseweg 310,
6812 AR, Arnhem,
Netherlands

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13 **DESCRIPTION OF EQUIPMENT**

The SRX - Valve Position Monitor is intended to be fitted to a valve. The device uses a metallic enclosure, either stainless steel or aluminium, with either a short or tall cover. This enclosure is fitted with a mechanical shaft that has cams and an indicator, it also contains a terminal board and various combinations of voltage free switches, certified sensors or transmitters (see tables below) that are activated by the cams. The indicator is on top of the enclosure and provides visual indication of the shaft position, which correlates with the valve position.

Various available functions, as specified in the model number:

Function	Description	Notes
17	Up to 2 off SPDT Gold Contact Mechanical Switch	Up to 0.5 A @ 30 VDC
40	Up to 2 off SPST Reed Switches (passive)	Up to 0.15 A @ 30 VDC
42	Up to 2 off V3 Style Proximity Sensor	ATEX certified to Ex ia IIC T4/T5/T6
43	Up to 2 off non-V3 Style Proximity Sensor	ATEX certified to Ex ia IIC T4/T5/T6
52	Between 3 & 6 off V3 Style Proximity Sensor	ATEX certified to Ex ia IIC T4/T5/T6
53	Between 3 & 6 off non-V3 Style Proximity Sensor	ATEX certified to Ex ia IIC T4/T5/T6
56	Between 3 & 6 off SPDT Gold Contact Mechanical Switch	Up to 0.5 A @ 30 VDC
59	Between 3 & 6 off SPST Reed Switches (passive)	Up to 0.15 A @ 30 VDC
70	Position Transmitter - resistive	4-20 mA @10 – 30 VDC ATEX certified to Ex ia IIC T4/T5/T6 Monitor may include up to 2 additional switches/sensors from functions 17, 40, 42 or 43

Various available optional switches, sensors and transmitters, as specified in the model number:

Option	Description	Device type	Certificate no.
Z	Voltage Free Contact Switch	Crouzet EF83161.8 Gold Plated Switch Stonel Corp SPST Maxx Guard 'J' Switch Stonel Corp SPDT Maxx Guard 'G' Switch	- -
Y	Proximity Sensor Type 1	Hans Turck GmbH, Bi2-G12-Y1	Kema 02ATEX1090X
		Hans Turck GmbH, Bi5-G18-Y1	Kema 02ATEX1090X
		Hans Turck GmbH, Ni10-G18-Y1	Kema 02ATEX1090X
		Hans Turck GmbH, Ni2-G12-Y1	Kema 02ATEX1090X
		Hans Turck GmbH, Bi2-Q10S-Y1X	Kema 02ATEX1090X
		Hans Turck GmbH, Bi2-G12-Y1X	Kema 02ATEX1090X
		Hans Turck GmbH, Bi5-G18-Y1X	Kema 02ATEX1090X
		Hans Turck GmbH, Ni10-G18-Y1X	Kema 02ATEX1090X
		Hans Turck GmbH, Ni2-G12-Y1X	Kema 02ATEX1090X
		Hans Turck GmbH, Bi2-G12-Y1/S100	Kema 02ATEX1090X
		Hans Turck GmbH, Bi5-G18-Y1/S100	Kema 02ATEX1090X
		Hans Turck GmbH, Ni10-G18-Y1/S100	Kema 02ATEX1090X
		Hans Turck GmbH, Ni2-G12-Y1/S100	Kema 02ATEX1090X

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Option	Description	Device type	Certificate no.
W	Proximity Sensor Type 2	Pepperl & Fuchs, NCB2-12GM…-NO	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ2-11-N-G	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ2-V3-N…	PTB 00ATEX2032X
		Pepperl & Fuchs, NJ4-14GK-N…	PTB 00ATEX2048X
		Pepperl & Fuchs, NCB2-V3-NO	PTB 00ATEX2032X
		Pepperl & Fuchs, NJ2-12GK-N…	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ3-18GK-S1N...	PTB 00ATEX2049X
		Pepperl & Fuchs, NJ5-11-N...	PTB 00ATEX2048X
		Pepperl & Fuchs, SJ3,5-…-N...	PTB 00ATEX2219X
		Pepperl & Fuchs, NCN4-12GM…-N0	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ2-12GM-N…	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ4-12GK-N…	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ5-18GK-N…	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ1.5-8GM-N…	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ2-14GM-N…	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ4-12GM-N	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ5-18GM-N…	PTB 00ATEX2048X
V	Transmitter	PR Electronics, 5333B	Kema 03ATEX1535X
		PR Electronics, 5333C	Kema 03ATEX1535X
		PR Electronics, 5333D	Kema 03ATEX1535X
		PR Electronics 5335B	Kema 03ATEX1537X
		PR Electronics 5335C	Kema 03ATEX1537X
		PR Electronics 5335D	Kema 03ATEX1537X
		PR Electronics 5350B	Kema 02ATEX1318
	Optional Proximity Sensor Type 2	Pepperl & Fuchs, NCB2-12GM…-NO	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ2-11-N-G	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ2-V3-N…	PTB 00ATEX2032X
		Pepperl & Fuchs, NJ4-14GK-N…	PTB 00ATEX2048X
		Pepperl & Fuchs, NCB2-V3-NO	PTB 00ATEX2032X
		Pepperl & Fuchs, NJ2-12GK-N…	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ3-18GK-S1N...	PTB 00ATEX2049X
		Pepperl & Fuchs, NJ5-11-N...	PTB 00ATEX2048X
		Pepperl & Fuchs, SJ3,5-N...	PTB 00ATEX2219X
		Pepperl & Fuchs, NCN4-12GM…-N0	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ2-12GM-N…	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ4-12GK-N…	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ5-18GK-N…	PTB 00ATEX2048X
		Pepperl & Fuchs, SJ3.5-S1N…	PTB 00ATEX2049X
		Pepperl & Fuchs, NJ1.5-8GM-N…	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ2-14GM-N…	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ4-12GM-N	PTB 00ATEX2048X
		Pepperl & Fuchs, NJ5-18GM-N…	PTB 00ATEX2048X

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Option	Description	Device type	Certificate no.
U	Proximity Sensor Low Temperature Type 2	Pepperl & Fuchs,NJ2-11-SN-G…	PTB 00ATEX2049X
		Pepperl & Fuchs,NJ2-12GK-SN…	PTB 00ATEX2049X
		Pepperl & Fuchs,NJ4-12GK-SN…	PTB 00ATEX2049X
		Pepperl & Fuchs,NJ5-18GK-SN…	PTB 00ATEX2049X
		Pepperl & Fuchs,SJ3.5-SN…	PTB 00ATEX2049X
T	Proximity Sensor Low Temperature Type 1	Hans Turck GmbH, Bi2-P12-Y1X/S97	Kema 02ATEX1090X
		Hans Turck GmbH, Bi5-P12-Y1X/S97	Kema 02ATEX1090X
		Hans Turck GmbH, Ni10-P12-Y1X/S97	Kema 02ATEX1090X
		Hans Turck GmbH, Ni5-P12-Y1X/S97	Kema 02ATEX1090X
J	Transmitter	PR Electronics, 5333B	Kema 03ATEX1535X
		PR Electronics, 5333C	Kema 03ATEX1535X
		PR Electronics, 5333D	Kema 03ATEX1535X
		PR Electronics 5335B	Kema 03ATEX1537X
		PR Electronics 5335C	Kema 03ATEX1537X
		PR Electronics 5335D	Kema 03ATEX1537X
		PR Electronics 5350B	Kema 02ATEX1318
	Optional Volt Free Switches	Crouzet EF83161.8 Gold Plated Switch Stonel Corp SPST Maxx Guard 'J' Switch Stonel Corp SPDT Maxx Guard 'G' Switch	- -

The following safety parameters, temperature classes and ambient temperature ranges are applicable:

Option	Safety parameters	T class	Temp. range (Ta)
Z	Ui = 28 V, Ii = 120 mA. Pi = 1.3 W, Li = 0, Ci = 0	T6 T5	-40°C to +70°C -40°C to +80°C
Y	Ui = 15 V, Ii = 20 mA. Pi = 200 mW, Li = 150 µH, Ci = 150 nF	T6 T4	-25°C to +70°C -25°C to +100°C
W	Ui = 16 V, Ii = 25 mA. Pi = 34 mW, Li = 550 µH, Ci = 150 nF	T6 T5 T4	-25°C to +72°C -25°C to +87°C -25°C to +99°C
V	Individual Transmitter: Ui = 28 V, Ii = 120 mA. Pi = 840 mW, Li = 10 µH, Ci = 2 nF Optional sensor(s), when fitted: Ui = 16 V, Ii = 25 mA. Pi = 34 mW, Li = 550 µH, Ci = 150 nF	T6 T4	-40°C or -25°C to +60°C -40°C or -25°C to +85°C
U	Ui = 16 V, Ii = 25 mA. Pi = 34 mW, Li = 550 µH, Ci = 150 nF	T6 T5 T4	-50°C or -40°C to +72°C -50°C or -40°C to +87°C -50°C or -40°C to +99°C
T	Ui = 15 V, Ii = 20 mA. Pi = 200 mW, Li = 150 µH, Ci = 150 nF	T6	-40°C to +70°C

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Option	Safety parameters	T class	Temp. range (Ta)
J	Individual Transmitter: Ui = 28 V, Ii = 120 mA. Pi = 840 mW, Li = 10 µH, Ci = 2 nF Optional switch(s), when fitted: Ui = 28 V, Ii = 120 mA. Pi = 1.3 W, Li = 0, Ci = 0	T6 T4	-40°C to +60°C -40°C to +80°C

Variation 1 - This variation introduced the following change:

i. To permit the introduction of additional arrangements for the sensors and transmitters:

Option	Description	Notes
G	Certified Transmitter – Non Contact	With optional volt free switches
H	Certified Transmitter – Non Contact	With optional Type 2 sensor

These options comprise of:

Option	Description	Device Type	Certificate no.
G	Transmitter	Zettlex Printed Technologies Ltd, ST-1509-V1-A	FTZÚ 09ATEX0221X
	Optional Volt Free Switches	Crouzet EF83161.8 Gold Plated witch Stonel Corp SPST Maxx Guard 'J' switch Stonel Corp SPDT Maxx Guard 'G' switch	- - -
H	Transmitter	Zettlex Printed Technologies Ltd, ST-1509-V1-A	FTZÚ 09ATEX0221X
H	Optional Proximity Sensor Type 2	Pepperl & Fuchs, NCB2-12GM…-NO	PTB 00ATEX2048X
H		Pepperl & Fuchs, NJ2-11-N-G	PTB 00ATEX2048X
H		Pepperl & Fuchs, NJ2-V3-N…	PTB 00ATEX2032X
H		Pepperl & Fuchs, NJ4-14GK-N…	PTB 00ATEX2048X
H		Pepperl & Fuchs, NCB2-V3-NO	PTB 00ATEX2032X
H		Pepperl & Fuchs, NJ2-12GK-N…	PTB 00ATEX2048X
H		Pepperl & Fuchs, NJ3-18GK-S1N...	PTB 00ATEX2049X
H		Pepperl & Fuchs, NJ5-11-N...	PTB 00ATEX2048X
H		Pepperl & Fuchs, SJ3,5-N...	PTB 00ATEX2219X
H		Pepperl & Fuchs, NCN4-12GM…-N0	PTB 00ATEX2048X
H		Pepperl & Fuchs, NJ2-12GM-N…	PTB 00ATEX2048X
H		Pepperl & Fuchs, NJ4-12GK-N…	PTB 00ATEX2048X
H		Pepperl & Fuchs, NJ5-18GK-N…	PTB 00ATEX2048X
H		Pepperl & Fuchs, SJ3.5-S1N…	PTB 00ATEX2049X
H		Pepperl & Fuchs, NJ1.5-8GM-N…	PTB 00ATEX2048X
H		Pepperl & Fuchs, NJ2-14GM-N…	PTB 00ATEX2048X
H		Pepperl & Fuchs, NJ4-12GM-N	PTB 00ATEX2048X
H		Pepperl & Fuchs, NJ5-18GM-N…	PTB 00ATEX2048X

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Associated Safety Parameters:

Option	Safety parameters	T class	Temp. range (Ta)
G	Individual Transmitter: Ui = 28 V, Ii = 120 mA. Pi = 840 mW, Li = 5 µH, Ci = 0 Optional switch(s), when fitted: Ui = 28 V, Ii = 120 mA. Pi = 1.3 W, Li = 0, Ci = 0	T6 T4	-40°C to +60°C -40°C to +80°C
H	Individual Transmitter: Ui = 28 V, Ii = 120 mA. Pi = 840 mW, Li = 5 µH, Ci = 0 Optional sensor(s), when fitted: Ui = 16 V, Ii = 25 mA. Pi = 34 mW, Li = 550 µH, Ci = 150 nF	T6 T4	-40°C or -25°C to 60°C -40°C or -25°C to 85°C

Variation 2 - This variation introduced the following changes:

i. The existing aluminium housing (C100042) and covers (C110122 & C110123) were removed.
ii. New housings (C100181 to C100186) and cover were added.

Variation 3 - This variation introduced the following changes:

i. The Applicant's address was changed:

From:	To:
Unit 5a Valley Industries Hadlow Road, Tonbridge Kent TN11 0AH UK	Unit 4, Tenth Avenue Deeside Industrial Park Flintshire CH5 2UA UK

14 **DESCRIPTIVE DOCUMENTS**

14.1 **Drawings**

Refer to Certificate Annexe.

14.2 **Associated Sira Reports and Certificate History**

Issue	Date	Report no.	Comment
0	7 July 2009	R52L19844A	The release of the prime certificate.
1	18 January 2010	R21208A/00	The introduction of Variation 1.
2	28 September 2012	R28667A/00	The introduction of Variation 2.
3	20 November 2014	R70015826A	The introduction of Variation 3.
4	15th October 2019	1759	• Transfer of certificate **Sira 09ATEX2162X** from Sira Certification Service to CSA Group Netherlands B.V.. • EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. *(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*

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			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.)

15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)

15.1 The user/installer shall ensure that versions of these Valve Monitors that use an enclosure that orporates light metals are installed in a manner that minimises the risk of impact or friction with other metal surfaces.

15.2 Parts of these Valve Monitors are made of plastic. By virtue of its shape, design and position of use, it is assessed that this device is not considered to be an electrostatic risk; however, it shall 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, it shall also be cleaned with a damp cloth.

15.3 The user/installer shall install these Valve Monitors taking into account any restrictions or special conditions for safe use that are applicable to the previously certified devices that are fitted in the devices.

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.

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Certificate Annexe

Certificate Number: **Sira 09ATEX2162X**

Equipment: **SRX - Valve Position Monitor**

Applicant: **Imtex Controls Ltd**

Issue 0

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
A190193	1 of 1	-	25 Jun 09	Type SRX-IS- ATEX Master Model description
A160156	1 of 1	C	25 Jun 09	Title Label – SRX Intrinsically Safe
A160155	1 of 1	A	25 Jun 09	SRX Monitor Safety Label
A190194	1 of 1	B	25 Jun 09	Wiring Diagrams – SRX IS Units
A110009	1 of 1	A	25 Jun 09	MK3-6 Terminal Block
J100315	1 of 1	A	25 Jun 09	SRX Housing – General Layout
J100316	1 of 1	A	25 Jun 09	SRX Cover
SRX17S5LR-Z00-BOM	1 of 1	-	25 Jun 09	SRX w/2 x GP Mech Switch
SRX17S5LR-Z00-ASS	1 of 1	-	25 Jun 09	SRX17 Assembly
SRX70S5LR-J00-BOM	1 of 1	-	25 Jun 09	SRX17 w/PR Trans
SRX70S5LR-J00-ASS	1 of 1	-	25 Jun 09	SRX17 Assembly
A160149	1 of 1	A	25 Jun 09	Z or S Label
A160150	1 of 1	A	25 Jun 09	Y or R Label
A160151	1 of 1	C	25 Jun 09	W Label
A160152	1 of 1	C	25 Jun 09	V Label
A160153	1 of 1	A	25 Jun 09	U Label
A160154	1 of 1	B	25 Jun 09	T or M Label
A160162	1 of 1	A	25 Jun 09	J Label

Issue 1

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
A190193	1 of 1	B	07 Jan 10	Type SRX-IS- ATEX Master Model description
A190194	1 of 1	C	07 Jan 10	Wiring Diagrams – SRX IS Units
A160172	1 of 1	-	07 Jan 10	G Label
A160171	1 of 1	-	07 Jan 10	H Label

Issue 2

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Title
J100315	1 of 1	B	27 Sep 12	SRX Housing – General Layout StSt Version
J100316	1 of 1	B	27 Sep 12	SRX Cover – Overview StSt Version
J100414	1 of 1	-	27 Sep 12	SRX Housing – Al – Overview
J100415	1 of 1	-	27 Sep 12	SRX Cover – Al General Layout

Issue 3

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
A160156	1 of 1	E	19 Nov 14	Title Label – SRX Intrinsically Safe

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