



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 10ATEX1219X** Issue: **0**

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

5 Applicant: **Imtex Controls Limited**

6 Address: **Unit 5A Valley Industries
Hadlow Road
Tonbridge
TN11 0AH
UK**

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 Article 9 of Directive 94/9/EC of 23 March 1994, 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 IEC 60079-0:2007 (for marking purposes) EN 60079-1:2007
EN 61241-0:2006 IEC 60079-31:2008 Ed 1 (used on the basis of latest technical knowledge)

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 EC 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 D
Ex d IIB T6 Gb
Ex t IIIC T85°C Db IP6x
(Ta = -40°C to +60°C)

Project Number 20689
C. Index 20

C Ellaby
Certification Officer

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 10ATEX1219X
Issue 0

13 DESCRIPTION OF EQUIPMENT

The Type SRX Valve Position Monitor is manufactured from aluminium or stainless steel and consists of a main enclosure base and domed cover, providing a cylindrical flameproof joint.

The base has provision for up to two cable entries which are used with suitably certified cable glands forming threaded, flameproof joints; these allow the equipment to be connected to an external electrical power source. Any unused cable entry is closed off with a suitably certified blanking device. The cover, which may be provided in a tall or short version, is secured to the base by 4 off, stainless steel, M5 x 0.8, socket head cap screws.

A drive shaft creates a flameproof cylindrical joint as it passes through the base wall. This rotates intermittently at less than 1 m/s through a maximum of 180° and operates various internal switch configurations. The drive shaft may be extended to pass through the cover to operate an externally mounted polycarbonate visual position indicator; this creates an additional cylindrical joint.

Product Nomenclature IQ-a-b-c-d-e-f	
a)	Alternative internal switches, as specified on the scheduled drawings
b)	Enclosure material of manufacture
c)	Entry thread types
d)	shaft type
e)	Indicator
f)	Feature designator

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	21 September 2010	R20689A/00	The release of prime certificate.

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

15.1 The maximum specified cover to shaft and base to shaft flamepath gaps are 0.13 mm.

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 CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

17.3 Each and every unit shall be subjected to a routine overpressure test at 13.13 bar, for at least 10 s as required by clause 15.1.3 of IEC 60079-1: 2007, without damage or distortion.

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Sira Certification Service

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Certificate Annexe

Certificate Number: Sira 10ATEX1219X
Equipment: Type SRX Valve Position Monitor
Applicant: Imtex Controls Ltd



Issue 0

Drawing	Sheet	Rev	Date (Sira Stamp)	Title
C100160	1	C	07 Sep 2010	SRX - Housing – Exd
C100169	1	A	24 Aug 2010	SRX - Exd Housing - Tall Unit
C110126	1	A	07 Sep 2010	SRX Cover - Certified - AI Version
C110119	1	E	07 Sep 2010	SRX Cover - Certified - 316SS Version
C110135	1 of 1	-	08 Sep 2010	SRX Cover – Certified – Plain Version
J100324	1	-	24 Aug 2010	Gap Analysis - SRX w/2 x Mech Switch – Exd
J100326	1	C	07 Sep 2010	SRX Shaft Assembly
J100327	1	B	07 Sep 2010	SRX Assembly - Requirements for Exd Monitor
J100328	1	A	24 Aug 2010	SRX Free Volume Calculation
J100329	1	-	24 Aug 2010	SRX Typical Assembly Gap Analysis - 2 Switch
J100330	1	-	24 Aug 2010	SRX - Typical Gap analysis - w/ Transmitter & 2 x Mech Switch – Exd
A170030	1	-	24 Aug 2010	O-Ring ID 9.92mm CS 2.62mm – EPDM
A170031	1	-	24 Aug 2010	98.5 x 1.5 O-Ring – EPDM
A170032	1	-	24 Aug 2010	O-Ring ID 9.8mm CS 1.5mm – EPDM
A100353	1	-	24 Aug 2010	External Earthing Clamp
A190214	1	-	24 Aug 2010	Type SRX - Exd Master Model Description
A160168	1	D	20 Sep 2010	Exd Title Plate - SRX Unit

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