



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX SIR 09.0066X** issue No.: **1**

Status: **Current**

Date of Issue: **2014-11-25** Page 1 of 4

Certificate history:  
Issue No. 1 (2014-11-25)  
Issue No. 0 (2009-8-14)

Applicant: **Imtex Controls Limited**  
Unit 4  
Tenth Avenue  
Deeside Industrial Park  
Flintshire CH5 2UA  
United Kingdom

Electrical Apparatus: **SRX - Valve Position Monitor**  
Optional accessory:

Type of Protection: **Intrinsic safety**

Marking: **Ex ia IIC T4/T5/T6 Gb**  
Notes:  
The temperature class and ambient temperature range depends on the construction of the devices, see Certificate Annexe.  
IECEX 60079-0:2007 Edition 5 was used for guidance in respect of marking.

Approved for issue on behalf of the IECEx Certification Body: **A G Boyes**

Position: **Certification Support Officer**

Signature:  
(for printed version)

Date:

2014-11-25

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**SIRA Certification Service**  
Rake Lane  
Eccleston  
Chester  
CH4 9JN  
United Kingdom

**sira**  
CERTIFICATION





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Page 2 of 4

Manufacturer: **Intex Controls**  
Unit 4  
Tenth Avenue  
Deeside Industrial Park  
Flintshire CH5 2UA  
**United Kingdom**

Additional Manufacturing location  
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2004** Electrical apparatus for explosive gas atmospheres - Part 0: General requirements  
Edition: 4.0

**IEC 60079-11 : 2006** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition: 5

*This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/SIR/ExTR09.0094/00](#)

[GB/SIR/ExTR14.0285/00](#)

Quality Assessment Report:

[GB/SIR/QAR09.0002/00](#)



# IECEx Certificate of Conformity

Certificate No.: IECEx SIR 09.0066X

Date of Issue: 2014-11-25

Issue No.: 1

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

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.

### CONDITIONS OF CERTIFICATION: YES as shown below:

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



# IECEX Certificate of Conformity

Certificate No.: IECEx SIR 09.0066X

Date of Issue: 2014-11-25

Issue No.: 1

Page 4 of 4

## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1 – this Issue introduced the following changes:	
1.	The Applicant's address was changed:
	<b>From:</b>
	Unit 5a Valley Industries
	Hadlow Road
	Tonbridge
	Kent TN11 0AH
	UK
<b>To:</b>	
Unit 4,	
Tenth Avenue	
Deeside Industrial Park	
Flintshire CH5 2UA	
UK	

**Annexe to:** IECEx SIR 09.0066X Issue 1

**Applicant:** Imtex Controls Limited

**Apparatus:** SRX - Valve Position Monitor



Various available functions are available, 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.
S	Voltage Free Contact Switch	Crouzet EF83161.8 Gold Plated Switch Stonel Corp SPST Maxx Guard 'J' Switch Stonel Corp SPDT Maxx Guard 'G' Switch	-
R	Proximity Sensor Type 1	Hans Turck GmbH, Bi2-G12-Y1	IECEX KEM 06.0036X
		Hans Turck Bi5-G18-Y1	IECEX KEM 06.0036X
		Hans Turck Ni10-G18-Y1	IECEX KEM 06.0036X
		Hans Turck Ni2-G12-Y1	IECEX KEM 06.0036X
		Hans Turck Bi2-Q10S-Y1X	IECEX KEM 06.0036X
		Hans Turck Bi2-G12-Y1X	IECEX KEM 06.0036X
		Hans Turck Bi5-G18-Y1X	IECEX KEM 06.0036X
		Ni10-G18-Y1X	IECEX KEM 06.0036X
		Hans Turck Ni2-G12-Y1X	IECEX KEM 06.0036X
		Hans Turck Bi2-G12-Y1/S100	IECEX KEM 06.0036X
		Hans Turck Bi5-G18-Y1/S100	IECEX KEM 06.0036X
		Ni10-G18-Y1/S100	IECEX KEM 06.0036X
Hans Turck Ni2-G12-Y1/S100	IECEX KEM 06.0036X		
P	Transmitter	Rosemount, 644H	IECEX BAS 07.0053X
	Optional Proximity Low Temp. Sensor Type 2	Pepperl & Fuchs, SJ3,5-...-N...	IECEX TUN 04.0016X
N	Proximity Sensor Low Temp. Type 2	Pepperl & Fuchs, SJ3,5-...-N...	IECEX TUN 04.0016X
M	Proximity Sensor Type 1	Hans Turck GmbH, Bi2-G12-Y1	IECEX KEM 06.0036X
		Hans Turck Bi5-G18-Y1	IECEX KEM 06.0036X
		Hans Turck Ni10-G18-Y1	IECEX KEM 06.0036X
		Hans Turck Ni2-G12-Y1	IECEX KEM 06.0036X
L	Transmitter	Rosemount, 644H	IECEX BAS 07.0053X
	Optional Proximity Sensor Type 1	Hans Turck GmbH, Bi2-G12-Y1	IECEX KEM 06.0036X
		Hans Turck GmbH, Bi5-G18-Y1	IECEX KEM 06.0036X
		Hans Turck GmbH, Ni10-G18-Y1	IECEX KEM 06.0036X
		Hans Turck GmbH, Ni2-G12-Y1	IECEX KEM 06.0036X
		Hans Turck GmbH, Bi2-Q10S-Y1X	IECEX KEM 06.0036X
		Hans Turck GmbH, Bi2-G12-Y1X	IECEX KEM 06.0036X
		Hans Turck GmbH, Bi5-G18-Y1X	IECEX KEM 06.0036X
		Hans Turck GmbH, Ni10-G18-Y1X	IECEX KEM 06.0036X
		Hans Turck GmbH, Ni2-G12-Y1X	IECEX KEM 06.0036X
		Hans Turck GmbH, Bi2-P12-Y1X/S97	IECEX KEM 06.0036X
		Hans Turck GmbH, Bi5-P12-Y1X/S97	IECEX KEM 06.0036X
		Hans Turck GmbH, Ni10-P18-Y1X/S97	IECEX KEM 06.0036X
		Hans Turck GmbH, Ni5-P12-Y1X/S97	IECEX KEM 06.0036X
K	Transmitter	Rosemount, 644H	IECEX BAS 07.0053X
	Optional Volt Free Switches	Crouzet EF83161.8 Gold Plated Switch Stonel Corp SPST Maxx Guard 'J' Switch Stonel Corp SPDT Maxx Guard 'G' Switch	-

**Annexe to:** IECEx SIR 09.0066X Issue 1  
**Applicant:** Imtex Controls Limited  
**Apparatus:** SRX - Valve Position Monitor



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

Option	Safety parameters	T class	Temp. range (Ta)
S	Ui = 28 V, Ii = 120 mA. Pi = 1.3 W, Li = 0, Ci = 0	T6	-40°C to +70°C
		T5	-40°C to +80°C
R	Ui = 15 V, Ii = 20 mA. Pi = 200 mW, Li = 150 µH, Ci = 150 nF	T6	-25°C to +70°C
		T4	-25°C to +100°C
P	Individual Transmitter: Ui = 30 V, Ii = 200 mA. Pi = 670 mW, Li = 0, Ci = 10 nF Optional sensor(s), when fitted: Ui = 16 V, Ii = 25 mA. Pi = 34 mW, Li = 550 µH, Ci = 150 nF	T6	-40°C to +40°C
		T4	-40°C to +72°C
N	Ui = 16 V, Ii = 25 mA. Pi = 34 mW, Li = 550 µH, Ci = 150 nF	T6	-50°C to +72°C
		T5	-50°C to +87°C
		T4	-50°C to +99°C
M	Ui = 15 V, Ii = 20 mA. Pi = 200 mW, Li = 150 µH, Ci = 150 nF	T6	-40°C to +70°C
L	Individual Transmitter: Ui = 30 V, Ii = 200 mA. Pi = 670 mW, Li = 0, Ci = 10 nF Optional sensor(s), when fitted: Ui = 15 V, Ii = 20 mA. Pi = 200 mW, Li = 150 µH, Ci = 150 nF	T6	-40°C or -25°C to +40°C
		T4	-40°C or -25°C to +70°C
K	Individual Transmitter: Ui = 30 V, Ii = 200 mA. Pi = 670 mW, Li = 0, Ci = 10 nF Optional sensor(s), when fitted: Ui = 28 V, Ii = 120 mA. Pi = 1.3 W, Li = 0, Ci = 0	T6	-40°C to +40°C
		T4	-40°C to +70 °C

The Manufacturer shall comply with the following condition of manufacture:

1. The products covered by this certificate incorporate previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosion safety design of their products.
2. The manufacturer shall take all reasonable steps to ensure that the user/installer complies with the conditions for certification associated with these Valve Monitors, in addition, the manufacturer shall provide the user/installer with an appropriate copy of the certificate for each certified device that is fitted in the device.