



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEX TRC 12.0022X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2016-08-08)
Date of Issue:	2022-11-03		Issue 1 (2014-12-18)
Applicant:	Imtex Controls Ltd Unit 4, Tenth Avenue Deeside Industrial Park Deeside Flintshire, CH5 2UA United Kingdom		Issue 0 (2013-04-12)
Equipment:	Valve Position Monitor, SRA series variants 14, 16, 17, 25, 40, 42, 43, 52, 53, 55, 56, 58, 59, 70, 92, 93, 94, 95, 96, 97, 26, 30, 41, 44, 45, 46, 47, 48, 49, 71, 72, 73, 74, 90, 91.		
Optional accessory:			
Type of Protection:	Flameproof Ex db, protection by enclosure Ex tb		
Marking:	Ex db IIB+H2 T4/T6 Gb Ex tb IIIC T130°C/ T85°C Db Tamb = -50°C to +60°C (T6) & -50°C to +85°C (T4) Applicable for cover type C110141 Ex db IIC T4/T6 Gb Ex tb IIIC T130°C/ T85°C Db Tamb = -50°C to +60°C (T6) & -50°C to +85°C (T4) Applicable for cover type C110142		

Approved for issue on behalf of the IECEx
Certification Body:

Stephen Winsor

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

Element Materials Technology
Unit 1 Pendle Place
Skelmersdale
West Lancashire





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Manufacturer: **Imtex Controls Ltd.,**
Unit 4, Tenth Avenue
Deeside Industrial Park
Deeside
Flintshire, CH5 2UA
United Kingdom

Manufacturing
locations:

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with 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 Reports:

[GB/TRC/ExTR12.0021/00](#)

[GB/TRC/ExTR12.0021/01](#)

[GB/TRC/ExTR12.0021/02](#)

Quality Assessment Report:

[GB/SIR/QAR09.0002/10](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The SRA series Valve Position Monitors are designed to provide high accuracy feedback of valve position for use with plant control systems and can be used in hazardous gas or explosive dust atmospheres. The equipment is mounted to a valve via a mounting plate and mounting kit. The enclosure is constructed from Aluminium and is of a two part construction, a cylindrical shape approximately 100mm in height by 145mm diameter. A shaft on the bottom of the SRA is physically linked to the valve and passes into the SRA flameproof IP6X enclosure. This shaft can be linked internally to a variety of components, micro switches, transmitters, reed switches, etc depending on the end user requirements. An output shaft on the top of the SRA can provide a physical 'open/closed' type of visual indication via a polycarbonate dome which houses a red/green tile type indicator.

There are many options available for the internal components that can be fitted but the enclosure is the same for all models. Two entry ports into the enclosure can be supplied as M20, M25, ½ or ¾ NPT threaded entries.

The equipment is identified through one of the two nomenclatures see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Installation should be carried out by suitably trained personnel to an applicable Code of Practice (e.g. IEC/EN60079-14).
2. Only suitably IP and Ex d certified and temperature rated cable glands, thread adaptors and blanking plugs are permitted for use with ATEX/IECEX flameproof enclosures.
3. For units operating at +85°C, cable, cable glands or conductors in conduit shall be rated +100°C (minimum).
4. Monitor includes external plastic parts and presents electrostatic hazard: Clean only with a damp cloth.
5. Do not install on an external source of heating or cooling e.g. by hot/cold air blowing temperature units
6. Monitor should not be opened when energised or an explosive atmosphere may be present.
7. The cover screws (13) must be loosened before opening and re-tightened before the monitor re-enters service.
8. The equipment shall not be subjected to a build-up of dust and is to be cleaned regularly to prevent a layer of dust forming on the enclosure.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Addition of alternative part numbering and drawing changes for update to Ex 'db'

Update to standards to IEC 60079-1:2014 Ed 7.0 and IEC 60079-31:2013 Ed 2

Annex:

[Annex to CoC IECEx TRC 12.0022X is 3.pdf](#)



Annex to IECEx Certificate of Conformity

IECEx TRC 12.0022X issue No.:3

A breakdown of models covered by this certification:	
Original Part number nomenclature refer to Drawing A190280.	
Product	Nomenclature SRA-aa-b-c-d-e-f
SRA	Type Designator e.g SRA
aa	Function Alternative internal switches 14, 16, 17, 25, 40, 42, 43, 52, 53, 55, 56, 58, 59, 70, 92, 93, 94, 95, 96, 97.
b	Enclosure material 9
c	Entry thread types, Conduit, 5, 8, B, D, E, F
d	Output drive shaft type, L M, S
e	Indicator, R, B, E, W, Y, O
f	Feature IXX
New Part number nomenclature refer to Drawing A190280U.	
Product	Nomenclature SRA-b-cc-d-ee-ff-g-h-ii-j-k-l-m-n-o-p-qq
SRA	Model e.g SRA
b	No. of Primary Function(numeric), 0,1, 2, 3, 4
cc	Primary Function 00, 14, 16, 17, 25, 26, 30, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 70, 71, 72, 73, 74, 90, 91
d	No. of Secondary Function, 0, 1, 2
ee	Secondary Function, 00, 14, 16, 17, 25, 26, 30, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 60, 70, 71, 72, 73, 74, 90, 91
ff	Non-Standard Switch/Sensor Designator, 00 or 2 digit alpha number from register.
g	Material, A
h	Cover Size, S, T
ii	Enclosure Coating, 00 or 2 digit alpha number from register.
j	Conduit Entries Available for Connection, 1, 2, 5, 6, 9, A, B, E, F, J
k	Shaft, L, M, N, S
l	Indicator, R, B, E, Y, N, S, F, O, 1, 2, 3, 4, 5, 6
m	No. of Extra/Spare Terminals, 0, 2, 4
n	Communication Protocol, 0, 1, 2, 5, 6, 7, A, B, D, F
o	Regional Certification, W
p	Hazardous Feature, D, H
qq	Special Feature, 00 or 2 digit alpha number from register



**Element Materials Technology,
Unit 1, Pendle Place,
Skelmersdale,
West Lancashire, WN8 9PN,
United Kingdom**

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Routine Tests:

1. The enclosures shall be subjected to a routine pressure test in accordance with IEC 60079-1:2007 Clause 16.1. As a result, there shall be no permanent deformation or damage to the joints or enclosure. The enclosures shall be tested at a pressure of:
 - SRA IIB+H2 Version at a minimum pressure of 10.3 bar for at least 10 seconds.
 - SRA IIC Version at a minimum pressure of 14.6 bar for at least 10 seconds.

Special conditions for manufacture:

None.

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Manufacturer's Documents

Title:	Drawing No.:	Rev. Level:	Date:
Type SRA - Exd - Master Model Description	A190280	B	2015-07-07
SRA Shaft Assembly	J100408	A	2012-10-22
SRA - Exd - Master Model Description	A190280U	First	2022-02-03
SRA cover IIB+H2 Version	C110141	E	2016-05-10
SRA Small Cover - IIC	C110142	B	2016-05-10
Flameproof Gap Analysis - SRA - Exd	J100413	B	2016-05-11
SRA Housing Small	C100180	D	2013-01-02
Gap Analysis – SRA w/ 4 x Mech Switch - Exd	J100407	-	2012-07-05
SRA assembly – Requirements Exd Monitor	J100409	A	2016-05-11
SRA Free Volume calculation	J100410	A	2016-05-11
110.74 ID x 1.78 - EPDM	BS-542-EPDM	-	2012-07-05
98.5 x 1.5 O-Ring - EPDM	A170031	-	2009-07-21
External Earthing Clamp	A100353	-	2008-09-22
Exd Title Plate – SRA Unit	A160189	E	2022-03-22
SRA w/2 x Mech -ATEX	SRA 1695 MR-IOO	C	2015-07-07
SRA w/transmitter & 2 x A140077	SRA7095MR-ISW	-	2013-01-02
Installation, Operation and Maintenance SRA – IECEx/ATEX (Sheets 1 to 3)	A190291	D	2022-01-07

Note: The symbol “ - ” indicates that this information was not available.



Attention is drawn to the operating and installation instructions which may contain useful information in relation to conditions of use.