



EU - TYPE EXAMINATION CERTIFICATE

2 Product or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU - Annex III

3 **EU** - Type Examination TRAC12ATEX0050X (incorporating variations V1 to V2)

Certificate No.:

Product: 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.

5 Manufacturer: Imtex Controls Ltd.,

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

United Kingdom

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

8 Element Materials Technology, Notified Body number 0891, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential report TRA-010425-33-00A & TRA-028383-33-00A.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2009

EN 60079-1:2007

EN 60079-31:2009

Except in respect of those requirements listed at section 18 of the schedule.

- 10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to specific conditions of use specified in the schedule to this certificate.
- This EU TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- The marking of this product shall include the following:

⟨Ex⟩ II 2 G D

⟨Ex⟩ II 2 G D

Ex d IIB+H2 T4/T6 Gb

Ex d IIC T4/T6 Gb

Ex tb IIIC T130°C/T85°C Db

Ex tb IIIC T130°C/ T85°C Db

Tamb = -50° C to $+60^{\circ}$ C (T6) & -50° C to $+85^{\circ}$ C (T4)

Tamb = -50° C to $+60^{\circ}$ C (T6) & -50° C to $+85^{\circ}$ C (T4)

Applicable for cover type C110141.

Applicable for cover type C110142.

This certificate and its schedules may only be reproduced in its entirety and without change. This certificate is issued in accordance with the Element Materials Technology Ex Certification Scheme.

SP Wilson

S P Winsor, Certification Manager

Issue date: CSF355 3.0 2016-08-08 Page 1 of 6



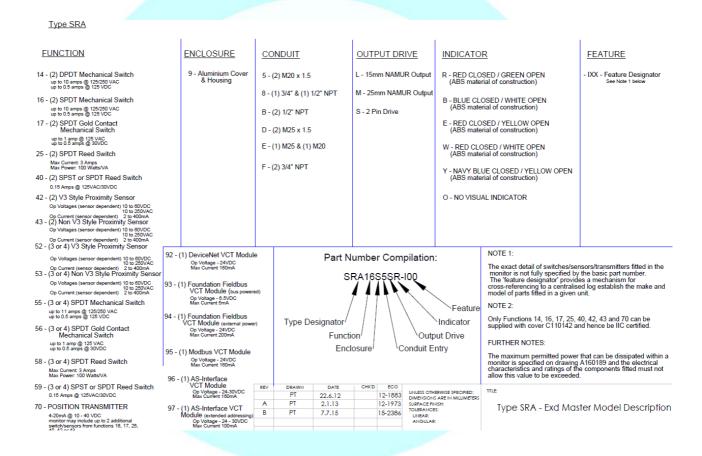
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15 Description of Product

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. A breakdown of the models covered by this approval is given below:



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16 Test report No. (associated with this certificate issue): TRA-028383-33-00A

17 Specific Conditions of Use

- 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 reenters service.
- 8. The equipment shall not be subjected to a buildup of dust and is to be cleaned regularly to prevent a layer of dust forming on the enclosure.

18 Essential Health and Safety Requirements (Directive Annex II)

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

<u>Clause</u> <u>Subject</u> None None

19 Drawings and Documents

The list of controlled manufacturer's drawings and documents is given in Appendix A to this schedule.

20 Routine Tests

- 1. The enclosures shall be subjected to a routine pressure test in accordance with EN 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.

21 Specific Conditions for Manufacture

None.

22 Photographs



23 Details of Markings

IEC Cert No: IECEx TRC 12.0022X ATEX Cert No: TRAC 12ATEX 0050X	Amtexcontrols
Model: SRA	Deeside, Flintshire - UK www.imtex-controls.com CONSULT INSTRUCTIONS PRIOR TO INSTALLATION,
Serial No:	OPERATION OF MAINTENANCE
Exd IIB+H2 T4/T6 Gb Tamb = -50°C to +60/ Ex tb IIIC T130°C/T85°C Db IP6 WARNING! POTENTIAL ELECTROSTATIC HAZARD - 3 WARNING! DO NOT OPEN WHEN ENERGISED OR 1 WARNING! FOR Tamb +85°C, CABLE, GLANDS or	(CX) 112 GD (C 0310
IEC Cert No: IECEx TRC 12.0022X ATEX Cert No: TRAC 12ATEX 0050X Model: SRA	Deeside, Flintshire - UK www.imtex-controls.com
Serial No:	OPERATION or MAINTENANCE
Exd IIC T4/T6 Gb Tamb = -50°C to +60/+85 Ex tb IIIC T130°C/T85°C Db IP6 A WARNING! POTENTIAL ELECTROSTATIC HAZARD -:	SEE INSTRUCTIONS CX 11 2 GD CE 0310
WARNING! DO NOT OPEN WHEN ENERGISED OR N WARNING! FOR Tamb +85°C, CABLE, GLANDS or	WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT CONDUCTORS IN CONDUIT SHALL BE RATED +100°C (min)

CONTINUATION OF SCHEDULE TO CERTIFICATE TRAC12ATEX0050X V2

24 Details of Variations to this Certificate

This certificate is a consolidated certificate and reflects the latest status of the certification, including the following variations:

- Variation V1 Change of address and update of label.
- Variation V2 Addition of IIC variant using small cover C110142 and update to drawings.

25 Notes to CE marking

In respect of CE Marking, Element Materials Technology accepts no responsibility for the compliance of the product against all applicable Directives in all applications.

26 Notes to this certificate

Element Materials Technology certification reference: TRA-028383-32-00.

Throughout this certificate, the date format yyyy-mm-dd (year-month-day) is used.

Notified Body 0891 is the designation for Element Materials Technology Warwick Ltd (formerly known as TRaC Global Ltd).

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 of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variation certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

CONTINUATION OF SCHEDULE TO CERTIFICATE TRAC12ATEX0050X V2

APPENDIX A - LIST OF CONTROLLED MANUFACTURER'S DOCUMENTS

Title:	Drawing No.:	Rev. Level:	Date:
Type SRA – Exd Master Model Description	A190280	В	2015-07-07
SRA Cover IIB+H2 Version	C110141	Е	2016-05-10
SRA Shaft Assembly	J100408	А	2012-10-22
Flamepath Gap Analysis – SRA – Exd	J100413	В	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 for Exd Monitor	J100409	А	2016-05-11
SRA Free Volume Calculation	J100410	А	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	С	2015-07-07
SRA w/2 x Mech – ATEX	SRA 1695 MR-IOO	С	2015-07-07
SRA w/transmitter & 2 x A140077	SRA7095MR-ISW	*	2013-01-02
Installation, Operating and Maintenance SRA – IECEx / ATEX (Sheets 1 to 3)	A190291	А	2016-05-10
SRA Small Cover - IIC	C110142	В	2016-05-10

^{*}no information provided.