



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 08ATEX1266X** Issue: **7**

4 Equipment: **Valve Position Monitor**

5 Applicant: **Imtex Controls Limited**

6 Address: **Unit 4 Deeside Point
10th Avenue Zone 3
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 IEC 60079-0:2018	EN 60079-1:2014	EN 60079-31:2014
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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 2 G D
Ex db IIC T* Gb
Ex tb IIIC T*°C Db
(Tamb -°C to +°C)
*** Refer to Description of Equipment for specific marking**

IP6X

Signed: **J A May**

Title: **Director of Operations**



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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The IQxx Series Valve Position Indicator is constructed from cast stainless steel and consists of a main enclosure base and threaded lid cover, providing a flameproof threaded joint. The cover is secured in place by an M4 x 0.7 set screw through the base flange. The base has provision for up to three cable entries that are used with suitably certified cable glands allowing the equipment to be connected to an external electrical power source. Unused cable entries are closed off with suitably certified, blanking devices. A drive shaft passing through the base creates a flameproof cylindrical joint. The drive shaft, which rotates intermittently at less than 1 m/s through a maximum of 180°, operates various internal switch configurations. The drive shaft also operates a polycarbonate visual position indicator, which is secured externally to the under side of the base and shows the status of the valve.

The equipment is identified through one of the two nomenclatures below:

Product Nomenclature IQ-a-b-c-d-e-f	
a	Alternative internal switches
b	Enclosure material
c	Entry thread types
d	Output drive shaft type
e	Indicator
f	Feature

Product Nomenclature IQ-b-cc-d-ee-ff-g-h-ii-j-k-l-m-n-o-p-qq	
IQ	Model
b	No. of Primary Function(numeric)
cc	Primary Function
d	No. of Secondary Function
ee	Secondary Function
ff	Non-Standard Switch/Sensor Designator
g	Material
h	Cover Size
ii	Enclosure Coating
j	Conduit Entries Available for Connection
k	Shaft
l	Indicator
m	No. of Extra/Spare Terminals
n	Communication Protocol
o	Regional Certification
p	Hazardous Feature
qq	Special Feature



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Equipment markings and electrical ratings					
Type	Marking for gas	Marking for dust	Ambient temp. range	Max. power dissipation	Cable entry temp. rise
Monitor with tall cover	Ex db IIC T6 Gb	Ex tb IIIC T85°C Db	Ta -40°C to +40°C	18.63 W	25.8°C
	Ex db IIC T6 Gb	Ex tb IIIC T85°C Db	Ta -40°C to +60°C	8.13 W	12.8°C
	Ex db IIC T6 Gb	Ex tb IIIC T135°C Db	Ta -15°C to +85°C	24.45 W	32.2°C
Monitor with short cover	Ex db IIC T6 Gb	Ex tb IIIC T85°C Db	Ta -40°C to +40°C	12.42 W	25.5°C
	Ex db IIC T6 Gb	Ex tb IIIC T85°C Db	Ta -40°C to +60°C	6.12 W	12.7°C
	Ex db IIC T6 Gb	Ex tb IIIC T135°C Db	Ta -15°C to +85°C	15.22 W	30.7°C

Variation 1 - This variation introduced the following change:

- i. The introduction of 6 alternative VCT module options to the interior of the valve position monitor.

Variation 2 - This variation introduced the following change:

- i. The use of alternative 3 to 6 reed switches, rated 0.15 A at 125 V a.c. or 30 V d.c. was endorsed.

Variation 3 - This variation introduced the following changes:

- i. The maximum ambient temperature was increased from +80° to +85°C for T4 and the T135 ratings, consequently, the table in the description and Condition of Certification clause 17.4 were amended.
- ii. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, the documents previously listed in section 9, EN 61241-0:2006 and EN 61241-1:2004, were replaced by EN 60079-31:2009.
- iii. The Applicant's address was changed:

From:
 Unit 5A Valley Industries
 Hadlow Road
 Tonbridge
 Kent TN11 0AH UK

To:
 Unit 4 Deeside Point
 10th Avenue Zone 3
 Deeside Industrial Park
 Flintshire CH5 2UA UK

Variation 4 - This variation introduced the following changes:

- i. The removal of the following material notes from the housing and the cover variant drawings. 'DIN1690 Part10 Cast Stainless Steel 316SS Grade' and 'exceeds the quality of 150 (ISO 185)'
- ii. The introduction of alternative stainless steel grades for the housing and the cover variants. Therefore becoming:
 IQ-a-b-c-d-e-f
 Where b designates enclosure material of manufacture:
 S CF8M or
 CF3M or alternative Cast Austenitic Stainless Steel grades
 D CD3MN or alternative Cast Duplex Stainless Steel grades



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Variation 5 - This variation introduced the following changes:

- i. Assessment to demonstrate compliance with the latest technical knowledge, the standards EN 60079-0:2006, EN 60079-1:2007 and EN 60079-31:2009 were replaced by EN IEC 60079-0:2018, EN 60079-1:2014, and EN 60079-31:2014 respectively; the markings were updated to recognise the requirements of the latest standards.
- ii. Update to part number system.
- iii. Recognition of drawing modifications to meet requirements of applicable standards and to update labels with the introduction of the UKCA mark.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated CSA Group Reports and Certificate History

Issue	Date	Report number	Comment
0	24 February 2009	R51L18616B	The release of the prime certificate.
1	26 August 2009	R51A20477A	The introduction of Variation 1, and the inclusion of clause 17.4 applied in Report R51L18616B
2	13 September 2010	R20689B/00	The introduction of Variation 2.
3	24 September 2014	R70005417A	The introduction of Variation 3.
4	11 January 2016	R70052295A	The introduction of Variation 4.
5	15 October 2019	1448	<ul style="list-style-type: none">• Transfer of certificate Sira 08ATEX1266X 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 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.)
6	15 March 2022	R80110589A	The introduction of Variation 5.
7	31 March 2022	R80110589B	Issued to correct the Product nomenclature.



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15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 The maximum constructional gap (ic) is less than that required by Table 2 of EN 60079-1:2014 clause 5.2.2 as detailed below:

Flamepath	Maximum Gap (mm)	Comment
Push rod and main body	0.1	Cylindrical spigot joint

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 MANUFACTURE

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 The label shall bear the marking for gas, marking for dust and ambient temperature range that are specific to the particular maximum power dissipation and cable entry temperature rise that are marked on the product, as defined in the table in the Description of Equipment.
- 17.4 "The equipment can only be marked suitable for a temperature class T4 Ta = -15°C to +85°C when fitted with the Viton seals specified on the manufacturer's drawings"



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Certificate Annexe



Certificate Number: Sira 08ATEX1266X
Equipment: Valve Position Monitor
Applicant: Imtex Controls Limited

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
A160147	1 of 1	E	18 Feb 09	Name plate
A190180	1 of 1	D	11 Dec 08	Design option/product nomenclature
C110130	1 of 1	B	27 Nov 08	Enclosure low cover
C110131	1 of 1	B	27 Nov 08	Enclosure high cover
C100150	1 of 1	C	04 Dec 08	Enclosure body
J100306	1 of 1	D	05 Dec 08	Shaft assembly
J100310	1 of 1	-	28 Sep 08	Typical internal clearances – short housing
J100311	1 of 1	-	29 Sep 08	Typical internal clearances – tall housing
J100305	1 of 1	B	27 Nov 08	General arrangement detail drawing
J100309	1 of 1	A	27 Nov 08	Free volume enclosure calculation drawings
407003	1 of 1	C	08 Dec 08	Shaft O-ring drawing
A170027	1 of 1	C	08 Dec 08	Shaft O-ring drawing
A170026	1 of 1	C	08 Dec 08	Housing O-ring drawing
407001	1 of 1	C	08 Dec 08	Housing O-ring drawing
A100353	1 of 1	-	22 Sep 08	External earth clamp

Issue 1

Drawing	Sheets	Rev.	Date (Stamp)	Title
J100323	1 of 1	-	01 Jun 09	VCT Module General Arrangement
A190180-X	1 of 1	E	01 Jun 09	Design Options/Product Nomenclature

Issue 2

Drawing	Sheets	Rev.	Date (Stamp)	Title
A190180-X	1of1	F	06 Sep 10	Design Options/Product Nomenclature

Issue 3

Drawing	Sheets	Rev.	Date (Stamp)	Title
A160147	1 of 1	G	24 Sep 17	Title Plate IECEx/ATEX Unit

Issue 4

Drawing	Sheets	Rev.	Date (Stamp)	Title
C100150	1 of 1	E	08 Dec 15	Housing – Master Drawing
C110130	1 of 1	D	08 Dec 15	Small Cover
C110131	1 of 1	D	08 Dec 15	Tall Cover
A190180-X	1 of 1	H	08 Dec 15	Type IQ - Master Model Description

Issue 5. No new drawings were introduced

Issue 6

Drawing	Sheets	Rev.	Date (Stamp)	Title
A160147	1 of 1	H	25 Jan 22	Title Plate IECEx/ATEX/UKCA Unit
C100150	1 of 1	F	25 Jan 22	IQ Housing
A190180U	1 to 2	-	03 Mar 22	Master Model Description



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Certificate Annexe



Certificate Number: Sira 08ATEX1266X
Equipment: Valve Position Monitor
Applicant: Imtex Controls Limited

Issue 7. No new drawings were introduced



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