1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 12ATEX3032X** Issue: **2**

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

5 Applicant: **Imtex Control Limited**

6 Address: Unit 4
Tenth Avenue
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 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 60079-0:2009 EN 60079-7:2007 EN 60079-18:2009 EN 60079-31:2009

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

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 2GD
Ex emb IIC T6 Gb
Ex tb IIIC T85°C Db
(Ta = -40°C to +60°C)
or
Ex emb IIC T4 Gb
Ex tb IIIC T100°C Db
(Ta = -40°C to +80°C)

Project Number 70052295

N Jones
Certification Manager

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 12ATEX3032X
Issue 2

13 **DESCRIPTION OF EQUIPMENT**

The Type DQ Valve Position Monitors comprise a cylindrical stainless steel enclosure with main enclosure base and threaded domed cover. A drive shaft passing through the enclosure base operates up to four, internally mounted reed switches. The drive shaft also operates a polycarbonate visual position indicator, which is secured externally to the underside of the base and shows the status of the valve. Connection to the reed switches is via Ex e certified terminals. 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.

Product Nomenclature
DQ-*a-b-c-d-e-f*
Where: *a* = Function, *b* = Enclosure, *c* = Entry thread types, *d* = Output drive, *e* = Indicator, *f* = Feature designator

Variation 1 - This variation introduced the following changes:

i. The Applicant's address was changed:

From:	To:
Unit 5a Valley Industries	Unit 4, Tenth Avenue
Hadlow Road, Tonbridge	Deeside Industrial Park
Kent TN11 0AH	Flintshire CH5 2UA
UK	UK

Variation 2 - 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

14 **DESCRIPTIVE DOCUMENTS**

14.1 **Drawings**

Refer to Certificate Annexe.

14.2 **Associated Sira Reports and Certificate History**

Issue	Date	Report no.	Comment
0	23 February 2012	R24584A/00	The release of the prime certificate.
1	20 November 2014	R70015826A	The introduction of Variation 1.
2	06 January 2016	R70052295A	The introduction of Variation 2.

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE **Sira 12ATEX3032X**
Issue 2

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

15.1 The equipment shall be supplied via a fuse that is mounted externally in a safe area and rated at 120 V, 1 A maximum, The fuse shall be capable of withstanding a prospective short circuit current of 1500 A.

15.2 Bridges shall not be used with the terminals.

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 Every unit shall be subjected to a visual inspection in accordance with Clause 9.1 of IEC 60079-18:2009.

17.4 Every unit shall be subjected to a routine dielectric strength test of at least 1500 V r.m.s. a.c. applied for at least 1 s, or at least 1800 V r.m.s. a.c. applied for at least 100 ms, between all terminals and the equipment enclosure, in accordance with Clause 9.2 of IEC 60079-18:2009.

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Certificate Annexe

Certificate Number: **Sira 12ATEX3032X**

Equipment: **Type DQ Valve Position Monitor**

Applicant: **Imtex Control Limited**

Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Description
A140079-1	1	A	21 Feb 12	Switch Housing
A140079-2	1	A	21 Feb 12	Reed Switch
A140079-3	1	B	21 Feb 12	Switch Assembly
A140079-6	1	-	21 Feb 12	Encapsulation Procedure
A160185	1	C	21 Feb 12	Title Plate
J100390	1	B	21 Feb 12	Required Features
C110130	1	B	21 Feb 12	Small Cover
C110131	1	B	21 Feb 12	Tall Cover
C100150	1	C	21 Feb 12	Housing – Master Drawing
J100400	1	A	21 Feb 12	Four Switch Layout
A190266	1	A	21 Feb 12	Master Model Description
J100306-DQ	1	-	21 Feb 12	Shaft Assembly
DQ25S5SR-OOO	1	A	21 Feb 12	Two Switch Valve Position Monitor
DQ58S5SR-OOO	1	A	21 Feb 12	Four Switch Valve Position Monitor
TW523C	1	-	21 Feb 12	Cable Type 598
TW624	1	-	21 Feb 12	Small Ferrule

Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Description
A160185	1 of 1	D	13 Nov 14	DQ Title Plate - Exme

Issue 2

Drawing	Sheets	Rev.	Date (Sira stamp)	Description
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
A190266	1 of 1	C	08 Dec 15	Type DQ - Master Model Description

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