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 SIR 12.0009X**

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Certificate history:

Status: **Current**

Issue No: 4

Issue 3 (2022-03-15)
Issue 2 (2016-01-06)
Issue 1 (2014-11-25)
Issue 0 (2012-03-01)

Date of Issue: 2022-03-31

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

Equipment: **Type DQ Valve Position Monitor**

Optional accessory:

Type of Protection: **Increased Safety, Encapsulation and Dust**

Marking: Ex eb mb IIC T6 Gb
Ex tb IIIC T85°C Db
(Ta = -40°C to +60°C)

or

Ex eb mb IIC T4 Gb
Ex tb IIIC T 100°C Db
(Ta = -40°C to +80°C)

Approved for issue on behalf of the IECEx Certification Body: **Michelle Halliwell**

Position: **Director Operations, UK & Industrial Europe**

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:

CSA Group Testing UK Ltd
Unit 6, Hawarden Industrial Park
Hawarden, Deeside CH5 3US
United Kingdom

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

Manufacturing locations: **Imtex Control Limited**
Unit 4
Tenth Avenue
Deeside Industrial Park
Flintshire CH5 2UA
United Kingdom

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 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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/CSAE/ExTR22.0039/00
GB/SIR/ExTR12.0047/00
GB/SIR/ExTR14.0285/00
GB/SIR/ExTR15.0341/00
GB/SIR/ExTR22.0025/00

Quality Assessment Report:

GB/SIR/QAR09.0002/10

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

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.

Refr to the annexe for the nomenclature

SPECIFIC CONDITIONS OF USE: YES as shown below:

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.
2. Bridges shall not be used with the terminals.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
This issue, Issue 4, recognises the following change; refer to the certificate annex to view a comprehensive history:

1. Issued to allow the product nomenclature to be corrected

Annex:

IECEx SIR 12.0009X Annexe Issue 4.pdf

Annexe to: **IECEx SIR 12.0009X Issue 4**

Applicant: **Imtex Control Limited**

Apparatus: **DQxx Series Valve Position Indicator**

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

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

Product Nomenclature DQ-b-cc-d-ee-ff-g-h-ii-j-k-l-m-n-o-p-qq	
DQ	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

Conditions of Manufacture

1. Every unit shall be subjected to a visual inspection in accordance with Clause 9.1 of IEC 60079-18**:**2014 + AMD1:2017.
2. 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 60079-18:2014 + AMD1:2017.

Full certificate change history

Issue 1 – this Issue introduced the following change:

1. The Applicant's address was changed:

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

CSA Group Testing UK Ltd.
Unit 6 Hawarden Industrial Park,
Hawarden Deeside CH5 3US, UK.

Issue 2 – this Issue introduced the following changes:

1. 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)'
2. 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

Issue 3 – this Issue introduced the following changes:

1. Assessment to demonstrate compliance with the latest technical knowledge, the standards IEC 60079-0:2007, IEC 60079-7:2006, IEC 60079-18:2009, and IEC 60079-31:2008 were replaced by IEC 60079-0:2017 + COR1:2020, IEC 60079-7:2015 + AMD1:2017, IEC 60079-18:2014 + AMD1:2017, and IEC 60079-31:2013 respectively; the markings were updated to recognise the requirements of the latest standards.
2. Update to part number system.
3. Recognition of drawing modifications to meet requirements of applicable standards and to update labels with the introduction of the UKCA mark.

Issue 4. this Issue introduced the following change:

1. Issued to allow the product nomenclature to be corrected

CSA Group Testing UK Ltd.
Unit 6 Hawarden Industrial Park,
Hawarden Deeside CH5 3US, UK.