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 08.0099X**

Status: **Current**

Issue No: 6

Date of Issue: 2022-03-31

Certificate history:
Issue 5 (2022-03-15)
Issue 4 (2016-01-11)
Issue 3 (2014-09-24)
Issue 2 (2010-09-28)
Issue 1 (2009-09-03)
Issue 0 (2009-03-06)

Applicant: **Imtex Controls Limited**
Unit 4 Deeside Point
10th Avenue Zone 3
Deeside Industrial Park
Flintshire CH5 2UA
United Kingdom

Equipment: **IQxx Series Valve Position Indicator**

Optional accessory:

Type of Protection: **Flameproof and Dust**

Marking:

Ex db IIC T6 Tamb -40°C to +40°C Gb & Ex tb III C T85°C Db
Or
Ex db IIC T6 Tamb -40°C to +60°C Gb & Ex tb III C T85°C Db
Or
Ex db IIC T4 Tamb -15°C to +85°C Gb & Ex tb III C T135°C Db

IP6X

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

IECEx Certificate of Conformity

Certificate No.: **IECEx SIR 08.0099X**

Date of issue: 2022-03-31

Manufacturer: **Imtex Controls Limited**
Unit 4 Deeside Point
10th Avenue Zone 3
Deeside Industrial Park
Flintshire CH5 2UA
United Kingdom

Manufacturing locations: **Imtex Controls Limited**
Unit 4 Deeside Point
10th Avenue Zone 3
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 60079-1:2014-06 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/CSAE/ExTR22.0037/00
GB/SIR/ExTR09.0027/00
GB/SIR/ExTR09.0137/00
GB/SIR/ExTR10.0220/00
GB/SIR/ExTR14.0234/00
GB/SIR/ExTR15.0341/00
GB/SIR/ExTR22.0023/00

Quality Assessment Report:

GB/SIR/QAR09.0002/10

IECEx Certificate of Conformity

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

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.

Refer to the Annexe for the model nomenclature

SPECIFIC CONDITIONS OF USE: YES as shown below:

1 The maximum constructional gap (ic) is less than that required by Table 2 of IEC 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

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
This issue, Issue 6, recognises the following change; refer to the certificate annex to view a comprehensive history:

1. Issued to correct the Product nomenclature

Annex:

IECEx SIR 08.0099X Issue 6 Annexe.pdf

Annexe to: **IECEx SIR 08.0099X Issue 6**

Applicant: **Imtex Controls Limited**

Apparatus: **IQxx Series Valve Position Indicator**

The equipment is identified using 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

Specific Conditions of Use

1. The maximum constructional gap (ic) is less than that required by Table 2 of IEC 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

Conditions of Manufacture

1. 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.
2. 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

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

Full certificate change history

Issue 1 – this Issue introduced the following change:

1. The introduction of 6 alternative VCT module options to the interior of the valve position monitor, and the inclusion of a further condition of manufacture applied in associated certification.

Issue 2 – this Issue introduced the following change:

1. 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.

Issue 3 – this Issue introduced the following changes:

1. The maximum ambient temperature was approved to increase from +80° to +85°C for the T4 and the T135 ratings, the marking was amended in the description above accordingly.
2. Condition of Manufacture 1 was amended as a result of this change.
3. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, the document previously listed, IEC 61241-1:2004 Ed 1, was replaced by IEC 60079-31:2008 Ed.1.
4. The Applicant's address was changed

From:	To:
Imtex Controls Limited	Imtex Controls Limited
Unit 5A Valley Industries	Unit 4 Deeside Point
Hadlow Road	10th Avenue Zone 3
Tonbridge	Deeside Industrial Park
Kent TN11 0AH	Flintshire CH5 2UA
UK	UK

Issue 4 – 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:

   Where **b** designates enclosure material of manufacture:

   - IQ-a-**b**-c-d-e-f
     S = CF8M or
     CF3M or alternative Cast Austenitic Stainless Steel grades
     D = CD3MN or alternative Cast Duplex Stainless Steel grades

Issue 5 – this Issue introduced the following changes:

1. Assessment to demonstrate compliance with the latest technical knowledge, the standards IEC 60079-0:2007, IEC 60079-1:2007 and IEC 60079-31:2008 were replaced by IEC 60079-0:2017 + COR1:2020, IEC 60079-1:2014 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 6 – this Issue introduced the following change:

1. Issued to correct the Product nomenclature

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