

[1] **EC-TYPE EXAMINATION CERTIFICATE**



[2] **Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

[3] **EC-Type Examination Certificate Number: DEMKO 03 ATEX 134363X**

[4] **Equipment or Protective System: Industrial Control Device, Valve Position Monitor
Type EQ xx S xxx**

[5] **Manufacturer: Imtex Controls Limited**

[6] **Address: Unit 5a, Valley Industries, Hadlow Road, Tonbridge, Kent,
TN11 OAH, United Kingdom**

[7] This equipment or protective system and any acceptable variation there to is specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. 134363

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014: 1997 E incl. A1+A2 **EN 50018: 2000 E incl. A1**

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.

[12] The marking of the equipment or protective system shall include the following:

Ex II 2 G EEx d IIC T6

On behalf of UL International Demko A/S

Herlev, 2003-09-09


Karina Christiansen
Certification Manager

UL International Demko A/S

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Certificate: 03 ATEX 134363X

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Schedule

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[14]

EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 03 ATEX 134363X

[15]

Description

Industrial Control Device/Valve Position Monitor Type EQ xx S xxx, consisting of mechanical switches, passive switches, position transmitter, and proximity sensors housed in a stainless steel or #358 aluminum alloy flameproof enclosure. Please refer to mechanical drawing Nos. C100100, C110100 and C110102 for details.

The ambient temperature range is -40 °C to +60 °C.

Electrical data

Input voltage : 30 VDC, 125 VDC, 125/250 VAC, 500 VAC

Installation instructions

All cable entry devices and blanking elements shall be certified in type of explosion protection flameproof enclosure "d", suitable for the conditions of use and correctly installed.

Unused apertures shall be closed with suitable blanking elements.

For ambient temperatures below -10 °C use field wiring suitable for minimum ambient temperature.

Routine tests

Routine tests according to EN 50018 cl. 16 are not required, as the enclosures have been successfully tested at four times the reference pressure.

[16]

Report No.

Project Report No.: 134363-01 (Hazardous Location Testing)

Project Report No.: 130991-02 (Ingress Protection)

Project Report No.: 134363-02 (Hazardous Location Testing)

Drawings:

Number	Date	Description
A190105	2004-02-26	Certified Type IQ Master Model Description
A160082	2003-03-07	Title Plate – Mechanical Switches
A160083	2003-03-07	Title Plate – SPST Maxx Guard
A160084	2003-03-07	Title Plate – SPDT Maxx Guard
A160085	2003-03-07	Title Plate – Proximity Sensors
A160086	2003-03-03	Title Plate –GP Mechanical Switches
A160087	2003-07-03	Title Plate – Position Transmitter
A160103	2004-02-06	Title Plate – ATEX Certified Unit
C100100	2004-02-04	Housing, Type IQ
C110100	2004-03-19	Type IQ High Top Cover
C110102	2004-03-19	Type IQ Small Top Cover

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Report: 134363-02



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Schedule

[13]

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EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 03 ATEX 134363X

[17]

Special conditions for safe use:

Caution marking: Always Disconnect from Power Supply and Loosen Cover Lock Screw Before Opening.

The cable and/or conduit entry devices shall be certified to "ATEX" standards, in type of explosion protection flameproof enclosure "d", suitable for the conditions of use and correctly installed. They shall maintain the degree of ingress protection IP67 for the apparatus.

[18]

Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the Ex standards only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

Additional information

The Type EQ valve position monitor has in addition passed the tests for Ingress Protection to IP 67 in accordance with IEC 60529.

In addition to the Valve Position Monitor type EQ, the identically constructed Valve Position Monitor type IQ has been evaluated according to requirements in EN 50281-1-1: 1998 and can following be marked:

 II 2 GD T80°C EEx d IIC T6

The maximum surface temperature designation T 80°C is based on the maximum ambient temperature of 80°C and under dust layers with up to 5mm thickness.

Nomenclature for Valve Position Monitor type IQabcde:

- a function
- b feature
- c conduit entry type
- d shaft
- e indicator

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

On behalf of UL International Demko A/S

Herlev, 2004-04-16


Karina Christiansen
Certification Manager

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QUALITY ASSURANCE NOTIFICATION

SCHEDULE

Explosion protection concepts for which the manufacturer has been assessed

ia, ib	Intrinsic Safety
d	Flameproof
D	Dust Ingress Protection

Equipment categories for which the manufacturer has been assessed

Instrumentation, Measurement and Control Equipment

Certificates included within the scope of this Notification

DEMKO 03ATEX134363X

DEMKO 04ATEX136983

DEMKO 04ATEX136984

Notification No: SIRA 03 ATEX M284
Date of Initial Issue: 08 April 2004
Date of Current Issue: 06 February 2007

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Sira Certification Service

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