



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: issue No.:
Status:
Date of Issue: **2011-10-19** Page 1 of 4

Certificate history:
Issue No. 2 (2011-10-19)
Issue No. 1 (2009-5-28)
Issue No. 0 (2008-3-19)

Applicant: **TopWorx Inc.**
3300 Fern Valley Road
P.O. Box 37290
Louisville
KY 40233
United States of America

Electrical Apparatus: **Types DXP and DXS Switchboxes**
Optional accessory:

Type of Protection: **Flameproof and Dust**

Marking: **Ex d IIC T6 (Ta -50°C to + 60°C)
Ex d IIB+H2 T6 (Ta -50°C to + 60°C)
Ex tb IIIC T85°C Db IP67**

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

C Ellaby

Position:

Deputy Certification Manager

*Signature:
(for printed version)*

Date:

2011-10-19

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SIRA Certification Service
Rake Lane
Eccleston
Chester
CH4 9JN
United Kingdom

sira
CERTIFICATION



IECEx Certificate of Conformity

Certificate No.: IECEx SIR 07.0093X

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Manufacturer: **TopWorx Inc.**
3300 Fern Valley Road
P.O. Box 37290
Louisville
KY 40233
United States of America

Manufacturing location(s):

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 electrical apparatus 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 : 2007-10 Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

This Certificate does not indicate compliance with electrical 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 Report:

[GB/SIR/ExTR08.0031/00](#)

[GB/SIR/ExTR09.0066/00](#)

[GB/SIR/ExTR11.0263/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0025/04](#)

[US/UL/QAR06.0009/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Type DXP switchbox comprises a rectangular base and cover manufactured in aluminium. The base and cover has a boss with a bronze sleeve bearing, through which passes the switch shaft. Cams with magnets are attached to the shaft to operate sensors within the enclosure. The enclosure is provided with either a flat flange joint or a serrated joint for gas group IIB+H₂ or group IIC applications respectively. The cover securing bolts are Grade A2-70 stainless steel.

The rectangular base and cover can be manufactured from stainless steel to form a Type DXS Switchbox; in this case the cover/base joint is a flat flange only (IIB+H₂) and the sleeve bearing is not provided.

The enclosure may contain a combination of switches, a fieldbus module, pilots and terminal strips up to the maximum thermal dissipation of 10 W. The pilots provide feedback to control a pneumatic valve attached to the side of the enclosure.

The switch box is rated up to 240 V, 15 A.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The IIC enclosures are excluded from use in carbon disulphide atmospheres.
2. The air pressure to the valve block, when fitted, shall not exceed 7.0 bar.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1 – this Issue introduced the following change:	
1	To permit the use of the equipment within a combustible dust laden atmosphere in accordance with the requirements of IEC 61241-1:2004 and to update compliance with IEC60079-0:2007.
Issue 2 – this Issue introduced the following change:	
1	This Issue of the certificate shows that the ExCB responsible for the QAR has been changed.