

UNITED KINGDOM CONFORMITY ASSESSMENT

1 **UK TYPE EXAMINATION CERTIFICATE**

2 Component intended for use in a Product or Protective System for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 Certificate Number: **CSAE 22UKEX1087U** Issue: **0**
4 Product: **Enclosure / TV***
5 Manufacturer: **Topworx Inc.** Refer to the Description for alternative
Manufacturing locations
6 Address: **3300 Fern Valley Road**
Louisville
Kentucky 40213
USA

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Testing UK Limited, Approved Body number 0518, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations. 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 has been assured by compliance with:


EN IEC 60079-0:2018 EN IEC 60079-7:2015 incl. A1:2018 EN 60079-31:2014


Except in respect of those requirements listed at Section 16 of the schedule to this certificate. The above standards may not appear on the UKAS Scope of Accreditation, but have been added through flexible scope of accreditation, which is available on request.

10 The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as the basis for certification of an equipment or protective system. Any limitations are listed in Section 15.

11 This UK TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of this product shall be in accordance with Regulation 41 and include the following:


II 2 G D
Ex eb IIC Gb
Ex tb IIIC Db IP66/IP68

Name: M Halliwell 
Title: Director of Operations

SCHEDULE

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13 DESCRIPTION OF PRODUCT

The TV* Enclosures consist of an enclosure (approximately 145 mm x 100 mm by 80 mm, without dome) made up of two parts, a bottom part (base) and a lid. The enclosure can be made from aluminium alloy or stainless steel, with or without a bushing, depending upon the application.

The lid is fitted with a seal inside a groove and four captive screws for attachment to the base. There are two basic lids, one is normal (flat) the other is a flat lid with a bushing. The bushing version of the lid has a hole the lid centre; this allows a shaft to be fitted. The bottom part allows for cable entry via screwed entry holes that accommodate cable glands.

The different TV* enclosure models are listed below:

Model	Materials	Comments	Lid O-ring material	Limiting temp. range
TVL	Lid: Aluminium Body: Aluminium	Standard flat lid or bushing lid with or without Lexan dome indicator attached to lid.	Silicone S7395-60	-50°C to +180°C
			Silicone S50440A	-50°C to +130°C
TVH	Lid: Stainless Steel Body: Stainless Steel	Standard flat lid or bushing lid with or without Lexan dome indicator attached to lid.	Silicone S7395-60	-50°C to +180°C
			Silicone S50440A	-50°C to +130°C

Alternative Manufacturing Locations:

Emerson Machinery Equipment (Shenzhen) Co. Ltd.
Fisher Controls Division
Bao Heng Technology Industry Park
North Hong Long 2nd Road
District 68
nbbvBoan District
Shenzhen 51810
China

Emerson Process Management Magyarorszag Kft.
Fisher Controls International LLC.
H-8001 Szekesfehervar Berenyi U
72-100
Hungary

Incorporated amendments

The product description includes the following applicable amendments from the previous supporting assessments. Only amendments directly applicable to UKCA certification have been included in this list. The amendments are numbered to include a reference to the variation at which these were introduced.

V.3

- i. The introduction of an alternative silicone lid O-ring construction for TVL and TVH enclosures; the marking, product description and schedule of limitations were amended accordingly.
- ii. The consolidation of the constructional drawings into a single general assembly drawing, CERT-ES-04147-1.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

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14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	23 May 2022	R80088235A	The release of the prime certificate.

15 SCHEDULE OF LIMITATIONS

15.1 The enclosure has the following limiting temperatures:

- Silicone S7395-60 lid O-ring = -50°C to +180°C
- Silicone S50440A lid O-ring = -50°C to +130°C

15.2 When fitted with an indicator dome, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall only be cleaned with a damp cloth.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (REGULATIONS SCHEDULE 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed in Section 9, all other requirements are demonstrated in the relevant reports.

17 PRODUCTION CONTROL

17.1 Holders of this certificate are required to comply with production control requirements defined in Schedule 3A, as applicable, and CSA Group Testing UK Regulations for Certificate Holders.

17.2 The TVL and TVH enclosures shall only be marked IP66/68 when fitted with Spec Seals S50440A Silicone Compound lid O-ring.



Certificate Annexe

Certificate Number: CSAE 22UKEX1087U
Product: Enclosure / TV*
Manufacturer: Topworx Inc.

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
CERT-ES-01613-1RC	1 of 1	7	16 Jul 12	Thinwall Base
CERT-ES-01751-1-SIRA	1 of 1	8	16 Jul 12	Lid, Flat Top (Without Bushing)
CERT-ES-01860-1-SIRA	1 of 1	7	16 Jul 12	Lid, Flat Top
ES-01834-1	1 of 1	1	16 Jul 12	Hollow TV* O-ring
CERT-ES-04147-1	1 of 1	7	31 Jul 14	ASSY, TV ENCLOSURE MASTER
CERT-ES-09384-1	1 of 1	AA	16 May 22	Nameplate Marking



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