

EU-TYPE EXAMINATION CERTIFICATE



Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- [3] EU-Type Examination Certificate Number: **DEMKO 19 ATEX 2321X Rev. 4**
- [4] Product: **D2 HART7 PST ESD Switchbox, Models DX*-S*C*****, DX*-S*1*******
- [5] Manufacturer: **Topworx Inc.**
- [6] Address: **3300 Fern Valley Rd., Louisville, KY 40213 USA**
- [7] This product and any acceptable variation thereto are 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 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products 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. **US/UL/ExTR19.0102/04.**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-31:2014**
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.
- [11] This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.
- [12] The marking of the product shall include the following:

II 2 G **Ex db IIC T6...T4 Gb**

II 2 G **Ex db IIB+H₂ T6...T4 Gb**

II 2 D **Ex tb IIIC T85°C ...T135°C Db**

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2019-12-20

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Notified Body UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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Schedule

EU-TYPE EXAMINATION CERTIFICATE No.

DEMKO 19 ATEX 2321X Rev. 4

[15] Description of Product
The Cat. Nos. D2 HART7 PST ESD, Models DX*-S*C*****, DX*-S*1***** are switchbox monitors. The equipment consists of the DXP/DXS Enclosure. Internal to the enclosure are three boards: The Main Board, the GO-Switch Board, and the Terminal Board.

Temperature range

The relation between ambient temperature and the assigned temperature class is as follows:

Ambient temperature range	Temperature class
-40°C to +60°C	T6, T85°C
-40°C to +80°C	T4, T135°C

Electrical data

Input to HART module: 24 Vdc max, 20 mA max

Input from External Pilot: 30W max

Input to Switches: 24 Vdc max, 250 mA max

Routine tests

No routine tests required.

[16] Descriptive Documents
The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

- [17] Specific conditions of use:
- See Drawing ES-08436-1 for information on the flameproof joints.
 - The slotted hexagonal head cover screws are not of standard form; they shall only be replaced with identical screws sourced from the equipment manufacturer.
 - The hexagonal head cover screws are stainless steel 304, grade A2-70 or A4-80 screws to ISO 35061. The minimum yield stress is 31,000 psi.
 - All unused entries must be filled with a suitably certified Ex component blanking plug.

[18] Essential Health and Safety Requirements
The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

