

# TYPE EXAMINATION CERTIFICATE



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

Type Examination Certificate Number: **DEMKO 20 ATEX 2388X Rev. 3**

Product: **D2 HART7 PST ESD Switchbox, Model DX\*-S\*2\*\*\*\*\***

Manufacturer: **Topworx Inc.**

Address: **3300 Fern Valley Rd., Louisville, KY 40213 USA**

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

UL International Demko A/S 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 Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential report no. **US/UL/ExTR19.0102/04.**

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018**

**EN 60079-15: 2010**

**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.

The marking of the product shall include the following:

 **II 3 G Ex nA nC IIC T4 Gc**

 **II 3 D Ex tc IIIC T135 °C Dc**

**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: 2020-06-25**

**Re-issued: 2021-08-31**

**Certification Body**

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## Schedule

### TYPE EXAMINATION CERTIFICATE No.

DEMKO 20 ATEX 2388X Rev. 3

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Description of Product:

The Cat. No. D2 HART7 PST ESD, Model DX\*-S\*2\*\*\*\*\* is a switchbox monitor. 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**

-40°C to +60°C

-40°C to +80°C

**Temperature class**

T4, T135°C

T4, T135°C

Electrical data

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

Input from External Pilot: 28W max

Input to Switches: 24 Vdc max, 250 mA max

Routine tests:

Electric strength test per Clause 6.5.2 of EN 60079-15 must be conducted on printed wiring boards.

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Descriptive Documents

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

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Special Conditions of Use:

None

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Essential Health and Safety Requirements

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

Additional information

The Cat. No. HART7 PST ESD, Model DS-06762-1 has in addition passed the tests for Ingress Protection to IP 66 and IP 67 in accordance with EN60529:1991+A1:2000+A2:2013.

