

# EU-TYPE EXAMINATION CERTIFICATE



- [1]
- [2]
- [3]
- [4]
- [5]
- [6]
- [7]
- [8]
- [9]
- [10]
- [11]
- [12]

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

EU-Type Examination Certificate Number: **UL 23 ATEX 3093X Rev. 0**

Product: **Positioner Devices, Model PD100**

Manufacturer: **TopWorx Inc.**

Address: **3300 Fern Valley Road, Louisville, KY 40213 USA**

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

UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 the Directive.

The examination and test results are recorded in confidential report no. **US/UL/ExTR23.0086/00.**

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

**EN IEC 60079-0:2018**

**EN 60079-31:2014**

Where additional criteria beyond those given here have been used, they are listed at item 18 in 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" listed under item 17 of this certificate.

This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

The marking of the product shall include the following (marking is provided in the Schedule as a part of item 15, if applicable):

 **II 2 D Ex tb IIIC T85°C Db**

**Certification Manager**  
Thomas Wilson

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:** 2023-12-13

**Notified Body**

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark  
Tel. +45 44 85 65 65, [info.dk@ul.com](mailto:info.dk@ul.com), [www.ul.com](http://www.ul.com)



[13]

[14]

## Schedule EU-TYPE EXAMINATION CERTIFICATE No. UL 23 ATEX 3093X Rev. 0

[15] Description of Product  
The PD100 models are enclosed type smart valve positioners. The shaft of the PD100 models is mechanically connected to the external valve actuator. When a control signal is received by the PD100 models, it changes the position of the valve from anywhere between 0% and 100% of the full opening position, then sends a signal back to the control system confirming that the valve is in the new desired position.

PD100 NOMENCLATURE:

PD100	C	F	N	G	R	00	00	EN
I	II	III	IV	V	VI	VII	VIII	IX

- I. Basic Series Designation  
PD100 – Smart Valve Positioner with basic controls
- II. Input & Communication  
C – 4-20mA
- III. Feedback Output  
F – Isolated position feedback transmitter 4-20mA
- IV. Electric and Pneumatic Connection  
N – Single conduit entry 1/2" NPT / Manifold with 1/4" NPT  
M – Single conduit entry M20 / Manifold with 1/4" NPT
- V. Manifold  
0 – Pneumatic manifold with gauges not included  
G – Pneumatic manifold with two pressure gauges included
- VI. Type of Actuator  
00 – No actuator adaptor  
RN – Rotary NAMUR adapter  
K1 - Linear lever with feedback 12 to 30mm stroke  
K2 - Linear lever with feedback 12 to 60mm stroke  
K3 - Linear lever with feedback 12 to 120mm stroke  
K4 - Linear lever with feedback 80 to 200mm stroke
- VII. Actuator Mounting Bracket  
00 – Without mounting bracket
- VIII. Options  
00 – Without any additional options
- IX. Hazardous Area Classification  
EN – Use in explosive atmospheres

Temperature range  
The ambient temperature range is -40°C to +65°C.

Electrical data  
I/O Rating  
Input: H+/H-, 35 VDC (12.2VDC drop) at 4-20mA  
Output: RT+/RT-, 27VDC at 4-20mA

Routine tests  
N/A

[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:

- Clean with a damp cloth before touching or servicing to avoid electrostatic discharge. See installation instructions for further guidance.
- Equipment has only been evaluated for low risk of mechanical impact. Equipment shall only be installed in areas where the risk for mechanical impact is low.

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



[13]

[14]

**Schedule**  
**EU-TYPE EXAMINATION CERTIFICATE No.**  
**UL 23 ATEX 3093X Rev. 0**

Additional information

The PD100 has in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529:1991+A1:2000+A2:2013.

**TOPWORX™**

The trademark **TOPWORX™** will be used as the company identifier on the marking label.

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.