



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: **UL 23 ATEX 3095X Rev. 1**
- [4] Product : **PD200 Series Smart Valve Positioners**
- [5] Manufacturer : **TopWorx Inc.**
- [6] Address : **3300 Fern Valley Rd, Louisville, KY, 40213-3528 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 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 the confidential report no. **US/UL/ExTR23.0087/01**.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN IEC 60079-0:2018 EN 60079-11:2012**
- Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.
- [10] 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.
- [11] 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.
- [12] The marking of the product shall include the following (marking is provided in the Schedule as a part of item 15, if applicable):

 **II 1 G Ex ia IIC T4 Ga**
 **II 2 D Ex ia IIIC T135°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: 2023-12-19

Re-issued: 2024-07-02

Notified Body UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com



Accredited by DANAK under registration number 7011 to certification of products.

Form-ULID-000217 (DCS:00-IC-F0056-1) – Issue 29.0

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Schedule

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[15]

Description of Product

The PD200 Series Smart Valve Positioners are intrinsically safe field devices intended to be powered by associated apparatus. They monitor the status and position of rotary or linear actuators and have connections for four separate intrinsically safe circuits. The shaft of the PD200 is mechanically connected to the external valve actuator. When a control signal is received, 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.

Nomenclature for type PD200:

PD200	H	S	N	G	RN	00	00	ES
I	II	III	IV	V	VI	VII	VIII	IX

I. Basic Series Designation

PD200 – Smart Valve Positioner with enhanced controls

II. Input & Communication

H – 4-20mA with HART

III. Feedback Output

S – Mechanical switches plus 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

ES – Intrinsically Safe

Temperature range

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

Electrical data

Intrinsically safe specifications:

Analog Control/HART Input 4-20mA (H+, H-):

U_i : 28 V

I_i : 93 mA

P_i : 0,651 W

L_i : 0 µH

C_i : 22 nF

Analog Feedback Output 4-20mA (RT+, RT-):

U_i : 28 V

I_i : 93 mA

P_i : 0,651 W

L_i : 0 µH

C_i : 0 nF

Alarm 1 (Switch 1):

U_i : 28 V

I_i : 93 mA

P_i : 2 W

L_i : 0 µH

C_i : 0 nF

Alarm 2 (Switch 2):

U_i : 28 V

I_i : 93 mA

P_i : 2 W

L_i : 0 µH

C_i : 0 nF

Routine tests

None.



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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 EU-Type Examination Certificate.

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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.
- External parts of the device contain aluminum. Care shall be taken to avoid sparking hazards due to impact.

[18]

Essential Health and Safety Requirements

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

Additional information

The PD200 Series has in addition passed the tests for Ingress Protection to IP66 in accordance with EN60529:1991+A1:2000+A2:2013.

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.