

[1]

EU-TYPE EXAMINATION CERTIFICATE



[2]

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

[3]

EU-Type Examination Certificate Number: **DEMKO 15 ATEX 1369X Rev. 2**

[4]

Product: **Pressure and temperature transmitter Vertex**

[5]

Manufacturer: **Dynisco Instruments LLC**

[6]

Address: **38 Forge Pkwy Franklin, MA 02038 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. **4789561033.1.1**

[9]

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

EN 60079-0:2012+A11:2013

EN 60079-11:2012

[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 1 G Ex ia IIC T3...T4...T6 Ga**

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: 2015-05-12

Re-issued: 2020-07-30

Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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[14]

Schedule

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[15]

Description of Product

The Vertex is a pressure and temperature transmitter intended for use in process control applications. The transmitter is comprised of four main sections: Sensor Snout Assembly, Transition Electronics, Flex/Rigid Assembly, Main Electronics. The Sensor Snout Assembly consists of the process connection and sensor, various different assemblies may be used. The Transition Electronics consists of two circuit boards, the 8-Pin Bridge Board and Interconnect Board. The Flex/Rigid Assembly consists of no circuit boards or one circuit board (depending on model), the Flex PCB. The Main Electronic consists of three or four circuit boards (depending on model) fully encapsulated, the Digital Board, Analog Board, 2nd 4-20mA Board (Optional), and either ATEX IS Conduit Connector Board or 8-Pin Connector Board with HALLS or 6-Pin Connector Board with HALLS or 6-Pin Connector Board with push buttons (PB).

The Vertex sensor can be connected to a maximum process temperature of up to 400°C. The ambient temperature range, maximum process temperature, and exposed process connection length are described in Drawing No. 000612.

The Vertex is connected to up to three intrinsically safe circuits supplied from associated apparatus; Pressure (which also provides main power), Temperature (optional), and Customer T/C (optional). Connection to the Vertex for Pressure and Temperature is made via miniature bayonet (PT 26482 Series 1) or miniature threaded (PC Series) connector or conduit with 3 or 5 wire. Connection to the Vertex for Customer T/C is made via a pigtail connection. The Vertex Series of Sensors have Entity Parameters as described in Drawing No. 000612.

Nomenclature for type Vertex is:

Vertex Part Nos. VERT-A-a-b-c-d-e-B-C-D-E-F-f		
A	MA4	4-20mA Pressure only
	MPT	4-20mA Pressure and Temperature
a	***	Accuracy
b	***	Digital Communication
c	***	Unit of Measure
d	***	Range of Pressure
e	***	Process connection
B	6PN	Connector PT02A-10-6P
	6PW	Connector PTIH-10-6P
	8CN	Connector PC02A-12-8P
	8CW	Connector PCIH-12-8P
	8PN	Connector PT02A-12-8P
	8PW	Connector PTIH-12-8P
	3°C	Conduit fitting with 3 wire cable ≤ 100 ft. cable length
	5°C	Conduit fitting with 5 wire cable ≤ 100 ft. cable length
C	***	Snout Length ≤ 36in. and Extension Length ≤ 36in.
D	***	Flex Length ≤ 72 in.
E	NTR	No temperature sensor
	TC*	T/C with flex pigtail
F	ISE	Intrinsically Safe ATEX
f	*****	Option Codes

An asterisk "*" represents any letter, number, or character.

Temperature range

The relation between ambient temperatures, the maximum process temperature, the assigned temperature class, and the exposed process connection length are shown in Drawing No. 000612.

Intrinsically safe specifications:

Intrinsically safe specifications are as shown in Drawing No. 000612.

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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:

- The Transmitter is not capable of withstanding a 500V RMS AC dielectric strength test.
- Vertex Models with an aluminium main electronics enclosure (Electrical Connection Codes "***N") shall be installed in such a way that sparking as a result of impact or friction between aluminium and steel is excluded.
- The device is intended for different ambient temperatures and process temperature connections as detailed in Drawing No. 000612.



[13]

Schedule

[14]

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Essential Health and Safety Requirements

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

Additional information

The trademark  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.

