[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 18 ATEX 2080 Rev. 4**

[4] Product: **Pressure Transmitters, IS626-**-GH-P*-E*-S1-ATEX-****, SBLTX-*****-*-***-*-****-ATEX-***, and PBLTX-*****-*-***-*-**-ATEX-***.**

[5] Manufacturer: **Dwyer Instruments LLC**

[6] Address: **102 Indiana Highway 212, Michigan City, IN 46360 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/ExTR18.0099/04.**

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

EN IEC 60079-0:2018 **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 T4 Ga

II 1 D Ex ia IIIC T135°C Da

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) o 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: 2018-09-14
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Notified Body UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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[13] [14]

Schedule
EU-TYPE EXAMINATION CERTIFICATE No.
DEMKO 18 ATEX 2080 Rev. 4

[15] Description of Product

Models IS626, SBLTX and PBLTX transmitters all consist of a similar stainless steel tube assembly that houses the main board and sensor board assembly. The tube assembly is completely encapsulated up to a ground clip within the transmitters. The Models IS626, SBLTX and PBLTX are intended to be interfaced with a certified intrinsically safe associated apparatus that provides outputs suitable for the intended application. The Models PBLTX and SBLTX are submersible transmitters that include a breather tube within the provided wiring that is to be terminated within the hazardous area. What differs between the Model IS626, SBLTX, and PBLTX transmitters is the overall external construction and the intended end user application of the transmitters. See the nomenclature as follows for the available options.

Nomenclature

Model IS626:

IS626	-	**	-	GH	-	P*	-	E*	-	S1	-	ATEX	-	****
		I		II		III		IV		V		VI		VII

I. Sensing range for the device
   a. ** where ** is one of the numeric characters defined within the table below that represent the sensing configuration for the device:

**		Sensing Range	** - Cont.		Sensing Range - Cont.
06	=	0 – 5 PSIG	13	=	0 – 300 PSIG
07	=	0 – 15 PSIG	14	=	0 – 500 PSIG
08	=	0 – 30 PSIG	22	=	0 – 600 PSIG
09	=	0 – 50 PSIG	24	=	0 – 250 PSIG
10	=	0 – 100 PSIG	25	=	0 – 400 PSIG
11	=	0 – 150 PSIG	27	=	0 – 25 PSIG
12	=	0 – 200 PSIG			

II. Enclosure housing of the device
   a. GH = General purpose stainless steel housing for the device.

III. Process fitting that the device is constructed with
   a. P1 = 0.25 in. NPT Male
   b. P2 = 0.25 in. NPT Female
   c. P3 = 0.25 in. BSPT Male

IV. Electrical connection
   a. E1 = 3 foot factory wiring with strain relief
   b. E2 = 6 foot factory wiring with strain relief
   c. E3 = 9 foot factory wiring with strain relief
   d. E6 = M12 Bendix Connection

V. Output configuration of transducer
   a. S1 = Output configuration of 4-20 mA for the transmitters.

VI. Configuration
   a. ATEX = ATEX/IECEx Compliant Configuration

VII. Additional options may include any of the following (Optional):
   a. Blank = No options added
   b. AT = Aluminum tag included on the wiring harness. To be removed prior to installation of the device.
   c. NIST = NIST calibration certificate provided with the device.

[13]

[14]

Schedule
EU-TYPE EXAMINATION CERTIFICATE No.
DEMKO 18 ATEX 2080 Rev. 4

Model SBLTX:

SBLTX	-	***** (I)	-	* (II)	-	*** (III)	-	* (IV)	-	**** (V)	-	ATEX (VI)	-	*** (VII)

I. Sensor range
   a. ***** where ***** is one to five numeric characters that represent the following sensing range:
      i. When item 'II' = BLANK, item 'I' = 3 to 400 PSI
      ii. When item 'II' = M, item 'I' = 2.2 to 280 M WC

II. Sensing range unit
   a. BLANK = PSI
   b. M = Metric

III. Cable length
   a. *** where *** is one to three numeric characters that represent the following cable length:
      i. When item 'V' = BLANK, item 'III' = 1 to 470 Feet (143 Meters)
      ii. When item 'V' = ETFE, item 'III' = 1 to 275 Feet (84 Meters)

IV. Cable length unit
   a. BLANK = Feet
   b. M = Meters

V. Cable type - conductor jacket material
   a. BLANK = Polyether Polyurethane
   b. ETFE = Ethylene Tetraflouroethylene

VI. Configuration
   a. ATEX = ATEX/IECEx Compliant Configuration

VII. Additional options may include either warranty options and/or any one of the process fittings (Optional)
   a. BLANK = Standard Warranty
   b. 2YR = 2 Year Warranty
   c. P1 = 0.25 in. NPT Male Process Fitting
   d. P2 = 0.25 in. NPT Female Process Fitting
   e. P3 = 0.25 in. BSPT Male Process Fitting
   f. P4 = 0.25 in. BSPT Female Process Fitting

Model PBLTX:

PBLTX	-	***** (I)	* (II)	-	*** (III)	* (IV)	-	** (V)	-	ATEX (VI)	-	*** (VII)

I. Sensor range
   a. ***** where ***** is one to five numeric characters representing the following sensor range:
      i. When item 'II' = BLANK, item 'I' = 5 to 145 PSI
      ii. When item 'II' = M, item 'I' = 3.5 to 100 M WC

II. Sensor range Unit
   a. BLANK = PSI
   b. M = Metric

III. Cable length
   a. *** where *** is one to three numeric characters that represent the following cable length:
      i. When item 'V' = PU, item 'III' = 3 to 470 Feet (143 Meters)
      ii. When item 'V' = ETFE', item 'III' = 3 to 275 Feet (84 Meters)

IV. Cable length unit
   a. BLANK = Feet
   b. M = Meters

V. Cable type - conductor jacket material
   a. BLANK = Ethylene Tetraflouroethylene (ETFE)
   b. PU = Polyether Polyurethane (PU)

VI. Configuration
   a. ATEX = ATEX/IECEx Compliant Configuration

VII. Warranty options
   a. BLANK = Standard Warranty
   b. 2YR = 2 Year Warranty

Temperature range

The ambient temperature range is -20°C ≤ Tamb ≤ +80°C or -20°C ≤ Tamb ≤ +65°C for models SBLTX-*****-*-***-*-****-ATEX-*** and PBLTX-*****-*-***-*-**-ATEX-*** when nomenclature item 'V' for Cable Type = 'PU' for Polyether Polyurethane

Electrical data

Input:

Terminals 1, 4 = 10 - 28 VDC, 4-20 mA

[13] **Schedule**

[14] **EU-TYPE EXAMINATION CERTIFICATE No.**
DEMKO 18 ATEX 2080 Rev. 4

Input Entity Parameters:

Model: IS626-**-GH-P*-E*-S1-ATEX-****		
Ui	≤	28 VDC
Ii	≤	93 mA
Pi	≤	651mW
Ci	=	0.0381 µF
Li	=	19.52 µH

Models SBLTX-*****-*-***-*-****-ATEX-***, and PBLTX-*****-*-***-*-**-ATEX-***		
Ui	≤	28 VDC
Ii	≤	93 mA
Pi	≤	651mW
Ci	=	0.037 µF + $C_{SBLTXCABLE}$ or $C_{PBLTXCABLE}$
Li	=	15.92 µH + $L_{SBLTXCABLE}$ or $L_{PBLTXCABLE}$

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:
None

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

Additional information

The trademarks Dwyer® or Mercold® 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.