IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx UL 18.0086**

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Certificate history:

Status: **Current**

Issue No: 4

Issue 3 (2021-01-25)
Issue 2 (2020-01-21)
Issue 1 (2019-10-30)
Issue 0 (2018-09-14)

Date of Issue: 2022-05-31

Applicant: **Dwyer Instruments LLC**
102 Indiana Highway 212
Michigan City, IN 46360
United States of America

Equipment: **Pressure Transmitters, Models IS626-**-GH-P*-E*-S1-ATEX-**** , SBLTX-*****-*-***-*-****-ATEX-*** , PBLTX-*****-*-***-*-**-ATEX-*****

Optional accessory:

Type of Protection: **Intrinsic safety "ia"**

Marking: Ex ia IIC T4 Ga

Ex ia IIIC T135°C Da

-20°C ≤ Tamb ≤ +80°C

*-20°C ≤ Tamb ≤ +65°C

*When nomenclature item 'V' for Cable Type = 'PU' for Polyether Polyurethane for models SBLTX-*****-*-***-*-****-ATEX-*** and PBLTX-*****-*-***-*-**-ATEX-***

Approved for issue on behalf of the IECEx Certification Body: **Lucy Frieders**

Position: **Staff Engineer**

Signature: (for printed version)

Date: 2022-05-31
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America

IECEx Certificate of Conformity

Certificate No.: **IECEx UL 18.0086**

Date of issue: 2022-05-31 Issue No: 4

Manufacturer: **Dwyer Instruments LLC**
102 Indiana Highway 212
Michigan City, IN 46360
United States of America

Manufacturing locations:

Dwyer Instruments LLC
102 Indiana Highway 212
Michigan City, IN 46360
United States of America

Dwyer Instruments LLC
250 Highgrove
Grandview MO 64030
United States of America

Dwyer Instruments LLC
3999 E Hubb Road
Bldg R-6-1
La Porte IN 46350
United States of America

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

US/UL/ExTR18.0099/00
US/UL/ExTR18.0099/01
US/UL/ExTR18.0099/02
US/UL/ExTR18.0099/03
US/UL/ExTR18.0099/04

Quality Assessment Report:

CA/CSA/QAR09.0006/13

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

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 third party listed intrinsically safe associated apparatus that is 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 in Annex for the available options.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: NO

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1: Updated documentation, and alternate construction for Models IS626, SBLTX, and PBLTX.

Issue 2: Revision to nomenclature for the model IS626, model SBLTX, and model PBLTX.

Issue 3: The construction was revised that extends the length of the enclosure, and an alternate connection for the sensor was added.

Issue 4: Update to latest editions of standards and minor updates including a company name change.

Annex:

Annex to IECEx UL 18.0086 Issue 4.pdf

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Certificate No.: IECEx UL 18.0086

Issue No.: 4

TYPE DESIGNATION

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 transducer.

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.

Model SBLTX:

SBLTX - ***** - * - *** - * - **** - ATEX - ***
I II III IV V 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 -	*****	*	-	***	*	-	**	-	ATEX	-	***
	I	II		III	IV		V		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

PARAMETERS RELATING TO THE SAFETY

Ambient Temperature range:

-20°C ≤ Tamb ≤ +80°C

*-20°C ≤ Tamb ≤ +65°C

*For models SBLTX-*****-*-***-*-****-ATEX-*** and PBLTX-*****-*-***-*-**-ATEX-*** when nomenclature item 'V' for Cable Type = 'PU' for Polyether Polyurethane

Input:

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

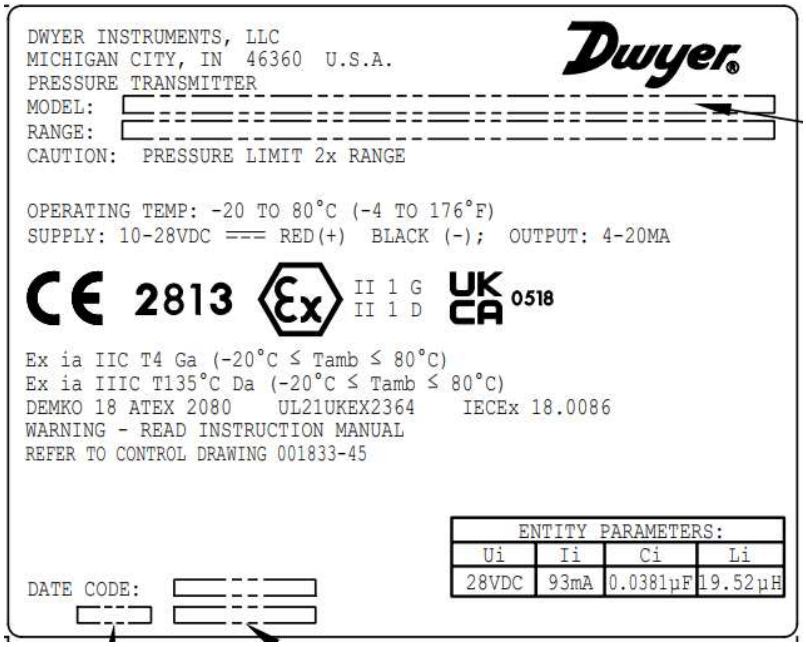
Input entity parameters:

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

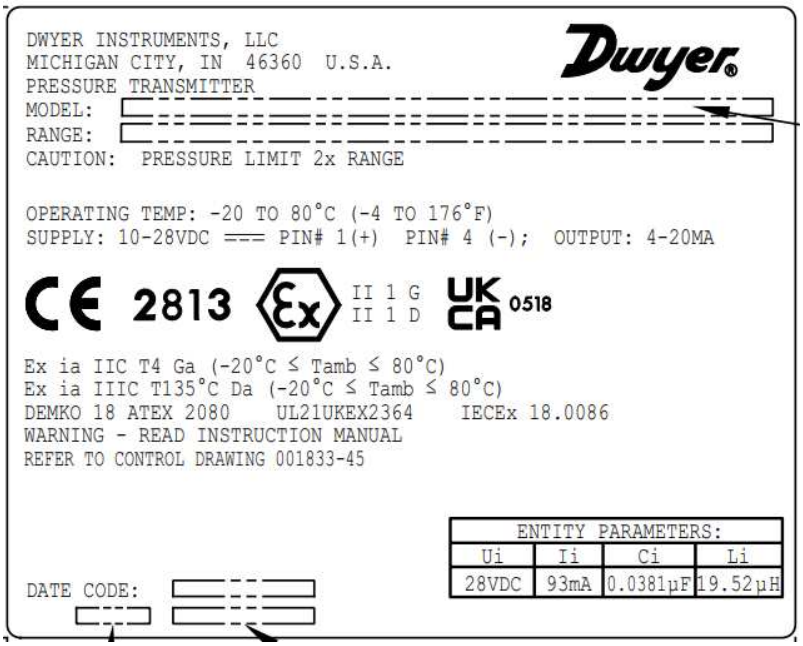
Models SBLTX-*****-*-***-*-****-ATEX-***, and PBLTX-*****-*-***-*-**-ATEX-***		
Ui	≤	28 VDC
Ii	≤	93 mA
Pi	≤	651mW
Ci	=	0.037 µF + $C_{SBLTX\ CABLE}$ or $C_{PBLTX\ CABLE}$
Li	=	15.92 µH + $L_{SBLTX\ CABLE}$ or $L_{PBLTX\ CABLE}$

MARKING

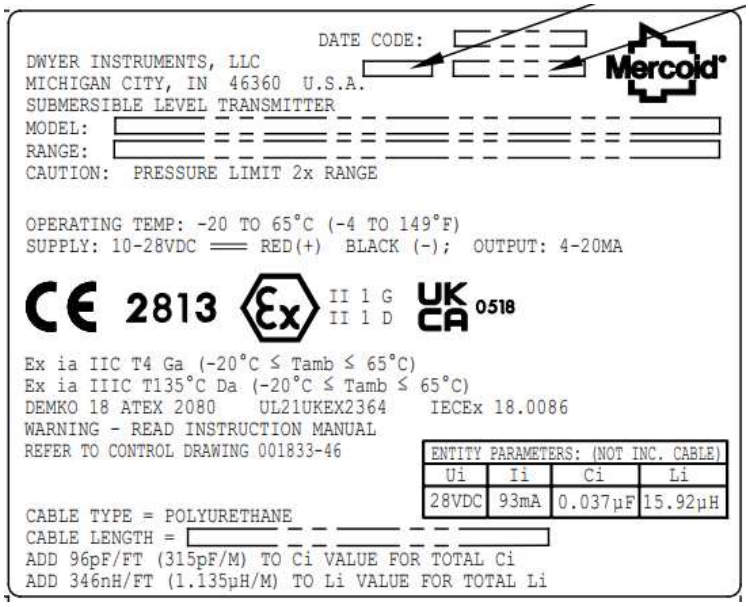
Models IS626-**-GH-P*-E1-S1-ATEX-****, IS626-**-GH-P*-E2-S1-ATEX-****, and IS626-**-GH-P*-E3-S1-ATEX-****



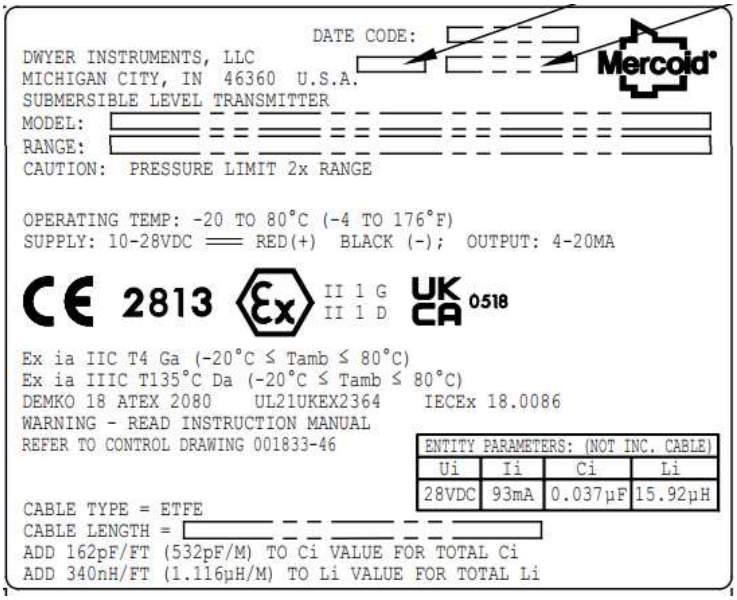
Model IS626-**-GH-P*-E6-S1-ATEX-****



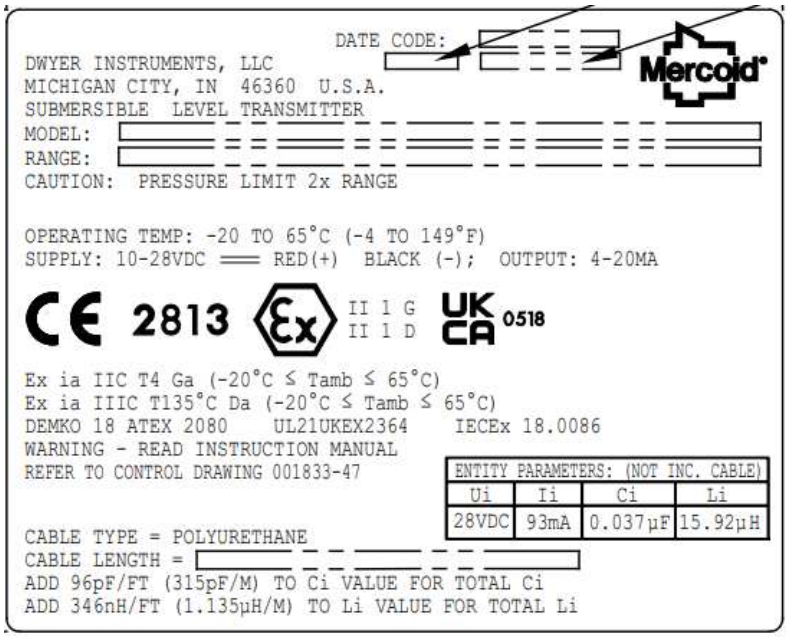
Model SBLTX-*****-*-***-*-____-ATEX-***



Model SBLTX-*****-*-***-*-ETFE-ATEX-***



Model PBLTX-*****-*-***-*-PU-ATEX-***



Model PBLTX-*****-*-***-*-__-ATEX-***