

INTERNATIONAL ELECTROTECHNICAL COMMISSION **IEC Certification System for Explosive Atmospheres**

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

IECEx UL 18.0086 Certificate No.: Page 1 of 4 Certificate history:

Issue 3 (2021-01-25) Issue No: 4 Status: Current Issue 2 (2020-01-21)

Issue 1 (2019-10-30) Date of Issue: 2022-05-31 Issue 0 (2018-09-14)

Applicant: **Dwyer Instruments LLC**

102 Indiana Highway 212 Michigan City, IN 46360 **United States of America**

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

-*-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

ATEX-*** and PBLTX-****-*-**-ATEX-***

Lucy Frieders

Approved for issue on behalf of the IECEx

Certification Body:

Position: Staff Engineer

Signature:

(for printed version)

2022-05-31

(for printed version)

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Certificate issued by:

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





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Dwyer Instruments LLC Manufacturer:

102 Indiana Highway 212 Michigan City, IN 46360 **United States of America**

Manufacturing

Dwyer Instruments LLC 102 Indiana Highway 212 locations: 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

Edition:7.0

Explosive atmospheres - Part 0: Equipment - General requirements

IEC 60079-11:2011

Edition:6.0

Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

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

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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TYPE DESIGNATION

Nomenclature:

Model IS626:

IS626	-	**	-	GH	-	<u>P*</u>	-	<u>E*</u>	-	<u>S1</u>	-	ATEX	-	****	
		1		Ш		Ш		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	**		Sensing Range –
			Cont.		Cont.
06	=	0 – 5 PSIG	13	=	0 - 300 PSIG
07	=	0 – 15 PSIG	14	=	0 - 500 PSIG
80	=	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	II	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.



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Model SBLTX:

TX -	****	- *	-	***	-	*	-	****	- A	TEX	-	***
	Ī	ĪĪ		III		ΙŪ		V		VI		VII
Senso												
a.	**** wh	nere ****	is or	ne to five	e num	eric	charac	cters that	t represe	ent the	e fol	lowing
	U	•							_			
0			em 'II'	= M, ite	em 'l' :	= 2.2	to 28	0 M WC				
٠.		ITIC										
		ro *** ic	one	to three	מוות ב	oric	chara	ctore the	at ronros	cant t	ha f	ollowing
a.			OHE	to tillec	Hull	ICIIC	Cilaia	CIGIS III	at repres	ociii i	110 1	Ollowing
			m 'V	' = BLAI	NK. ite	em 'll	ll' = 1 ·	to 470 F	eet (143	Mete	rs)	
Cable					,				•	,		
a.	BĽANK	= Feet										
b.	M = Met	ters										
		Ethylene	e Tetr	aflouroe	ethyle	ne						
_		^TEV/	IFOE	. 0	1: 4 (> f:						
									r 001/ 01	oo of	th a	nroooo
			riciuo	e eme	wan	anty	optioi	is and/o	or arry or	ie oi	me	process
-		•	ard W	arranty								
					ess Fi	ttina						
							ng					
	Sensor a. Sensir a. b. Cable a. Cable a. b. Config a. Addition fittings a. b. c. d. e.	Sensor range a. ***** wh sensing i. ii. Sensing range t a. BLANK b. M = Met Cable length a. *** whe cable le i. ii. Cable length un a. BLANK b. M = Met Cable type - cor a. BLANK b. ETFE = Configuration a. ATEX Additional option fittings (Optiona a. BLANK b. 2YR = 2 c. P1 = 0.2 d. P2 = 0.2 e. P3 = 0.2	Sensor range a. ***** where ***** sensing range: i. When ite ii. When ite ii. When ite sensing range unit a. BLANK = PSI b. M = Metric Cable length a. *** where *** is cable length: i. When ite ii. When ite cable length unit a. BLANK = Feet b. M = Meters Cable type - conductor ja a. BLANK = Polyeti b. ETFE = Ethylene Configuration a. ATEX = ATEX/ Additional options may ifittings (Optional) a. BLANK = Standa b. 2YR = 2 Year W c. P1 = 0.25 in. NP d. P2 = 0.25 in. NP e. P3 = 0.25 in. BS	Sensor range a. ***** where ***** is or sensing range: i. When item 'II' ii. When item 'II' Sensing range unit a. BLANK = PSI b. M = Metric Cable length a. *** where *** is one cable length: i. When item 'V' ii. When item 'V' ii. When item 'V' Cable length unit a. BLANK = Feet b. M = Meters Cable type - conductor jacket a. BLANK = Polyether P b. ETFE = Ethylene Tetr Configuration a. ATEX = ATEX/IECE: Additional options may includ fittings (Optional) a. BLANK = Standard W b. 2YR = 2 Year Warran; c. P1 = 0.25 in. NPT Ma d. P2 = 0.25 in. NPT Fer e. P3 = 0.25 in. BSPT M	Sensor range a. ***** where ***** is one to five sensing range: i. When item 'II' = BLAN ii. When item 'II' = M, ite Sensing range unit a. BLANK = PSI b. M = Metric Cable length a. *** where *** is one to three cable length: i. When item 'V' = BLAN ii. When item 'V' = ETFI Cable length unit a. BLANK = Feet b. M = Meters Cable type - conductor jacket materia a. BLANK = Polyether Polyureth b. ETFE = Ethylene Tetraflouroe Configuration a. ATEX = ATEX/IECEx Comp Additional options may include eithe fittings (Optional) a. BLANK = Standard Warranty b. 2YR = 2 Year Warranty c. P1 = 0.25 in. NPT Male Proce d. P2 = 0.25 in. NPT Female Proce e. P3 = 0.25 in. BSPT Male Proce	Sensor range a. ***** where ***** is one to five numsensing range: i. When item 'II' = BLANK, iteii. When item 'II' = M, item 'I' : Sensing range unit a. BLANK = PSI b. M = Metric Cable length a. *** where *** is one to three numcable length: i. When item 'V' = BLANK, iteii. When item 'V' = ETFE, item Cable length unit a. BLANK = Feet b. M = Meters Cable type - conductor jacket material a. BLANK = Polyether Polyurethane b. ETFE = Ethylene Tetraflouroethyle Configuration a. ATEX = ATEX/IECEx Compliant CAdditional options may include either warr fittings (Optional) a. BLANK = Standard Warranty b. 2YR = 2 Year Warranty c. P1 = 0.25 in. NPT Male Process Fiteld. P2 = 0.25 in. NPT Female Process Fiteld. P3 = 0.25 in. BSPT Male Process Fiteld.	Sensor range a. ***** where ***** is one to five numeric sensing range: i. When item 'II' = BLANK, item 'I' ii. When item 'II' = M, item 'I' = 2.2 Sensing range unit a. BLANK = PSI b. M = Metric Cable length a. *** where *** is one to three numeric cable length: i. When item 'V' = BLANK, item 'I' ii. When item 'V' = ETFE, item 'III' Cable length unit a. BLANK = Feet b. M = Meters Cable type - conductor jacket material a. BLANK = Polyether Polyurethane b. ETFE = Ethylene Tetraflouroethylene Configuration a. ATEX = ATEX/IECEx Compliant Confit Additional options may include either warranty 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	Sensor range a. ***** where ***** is one to five numeric characteristics sensing range: i. When item 'II' = BLANK, item 'I' = 3 to ii. When item 'II' = M, item 'I' = 2.2 to 28 to 28 to 38 to ii. When item 'II' = M, item 'I' = 2.2 to 28 to 38 to 39 to 30 to 3	Sensor range a. ***** where ***** is one to five numeric characters that sensing range: i. When item 'II' = BLANK, item 'I' = 3 to 400 PS ii. When item 'II' = M, item 'I' = 2.2 to 280 M WC Sensing range unit a. BLANK = PSI b. M = Metric Cable length a. *** where *** is one to three numeric characters the cable length: i. When item 'V' = BLANK, item 'III' = 1 to 470 F ii. When item 'V' = ETFE, item 'III' = 1 to 275 Fet Cable length unit a. BLANK = Feet b. M = Meters Cable type - conductor jacket material a. BLANK = Polyether Polyurethane b. ETFE = Ethylene Tetraflouroethylene Configuration a. ATEX = ATEX/IECEx Compliant Configuration Additional options may include either warranty options and/of 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. BSPT Male Process Fitting	Sensor range a. ****** where ****** is one to five numeric characters that represe 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 Sensing range unit a. BLANK = PSI b. M = Metric Cable length a. **** where **** is one to three numeric characters that represe cable length: i. When item 'V' = BLANK, item 'III' = 1 to 470 Feet (143 ii. When item 'V' = ETFE, item 'III' = 1 to 275 Feet (84 Meta) Cable length unit a. BLANK = Feet b. M = Meters Cable type - conductor jacket material a. BLANK = Polyether Polyurethane b. ETFE = Ethylene Tetraflouroethylene Configuration a. ATEX = ATEX/IECEx Compliant Configuration Additional options may include either warranty options and/or any or 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	Sensor range a. ***** where ***** is one to five numeric characters that represent the 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 Sensing range unit a. BLANK = PSI b. M = Metric Cable length a. **** where **** is one to three numeric characters that represent to cable length: i. When item 'V' = BLANK, item 'III' = 1 to 470 Feet (143 Meters) Cable length unit a. BLANK = Feet b. M = Meters Cable type - conductor jacket material a. BLANK = Polyether Polyurethane b. ETFE = Ethylene Tetraflouroethylene Configuration a. ATEX = ATEX/IECEx Compliant Configuration Additional options may include either warranty options and/or any one of 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. BSPT Male Process Fitting e. P3 = 0.25 in. BSPT Male Process Fitting	Sensor range a. ***** where ***** is one to five numeric characters that represent the followers 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 Sensing range unit a. BLANK = PSI b. M = Metric Cable length a. *** where *** is one to three numeric characters that represent the followers 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) Cable length unit a. BLANK = Feet b. M = Meters Cable type - conductor jacket material a. BLANK = Polyether Polyurethane b. ETFE = Ethylene Tetraflouroethylene Configuration a. ATEX = ATEX/IECEx Compliant Configuration Additional options may include either warranty options and/or any one of the 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



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b. 2YR = 2 Year Warranty

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Model PBLTX:

PBLT	TX -	****	*	- ***	*	-	**	-	<u>ATEX</u>	-	***	
		l	<u>II</u>	III	IV		V		VI		VII	
I.	Senso	r range										
	a.	**** W	here '	***** is or	ne to f	ive nu	ımeric	chai	acters rep	oresent	ing the fo	ollowing
		sensor	range	: :								
		i.	Whe	n item 'II'	= BL	ANK,	item '	l' = 5	to 145 PS	SI		
		ii.	Whe	n item 'II'	= M,	item '	I' = 3.	5 to 1	100 M WC	;		
II.	Senso	r range l	Jnit									
	a.	BLANK	$\zeta = PS$	il .								
	b.	M = Me	etric									
III.	Cable	length										
	a.	*** whe	ere **'	is one	to thre	ee nu	meric	char	acters that	at repre	esent the	e following
		cable le	ength:									
		i.	Whe	n item 'V	' = PL	J, item	ı 'III' =	= 3 to	470 Feet	(143 M	leters)	
		ii.	Whe	n item 'V	' = ET	FE', it	tem 'I	II' = 3	to 275 Fe	eet (84	Meters)	
IV.	Cable	length ui	nit									
	a.	BLANK	< = Fe	et								
	b.	M = Me	eters									
V.	Cable	type - co	nduct	or jacket	mateı	rial						
	a.	BLANK	$\zeta = Eth$	nylene Te	traflo	uroeth	nylene	e (ETI	FE)			
	b.	PU = P	olyeth	ner Polyu	rethar	ne (Pl	J)					
VI.	Config	uration										
	a.	ATEX	$\zeta = AT$	EX/IECE	x Con	nplian	t Con	figura	ation			
VII.	Warra	nty optioi	ns									
	a.	BLANK	$\zeta = Sta$	andard W	arran	ty						



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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:

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

	Models SBLTX-****-*-***-ATEX-***, and						
			PBLTX-****-*-**-*-ATEX-***				
Ţ	Ji	≤	28 VDC				
	li	≤	93 mA				
F	٦i	≤	651mW				
	Ci	=	0.037 μF + Csbltx cable or Cpbltx cable				
L	_i	=	15.92 u.H + Lsbitx cable of Lpbitx cable				

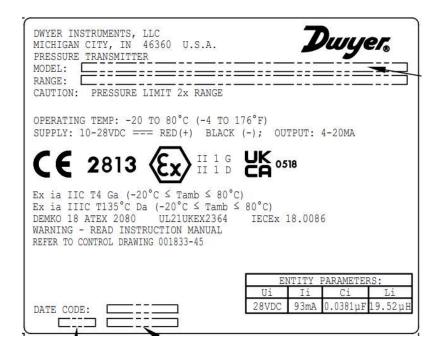


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MARKING

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

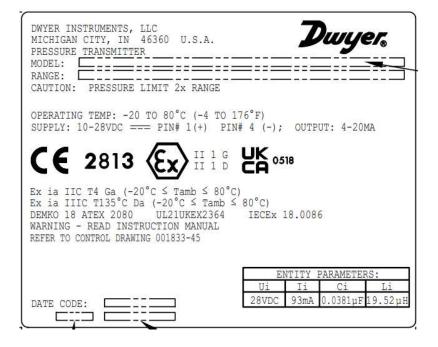




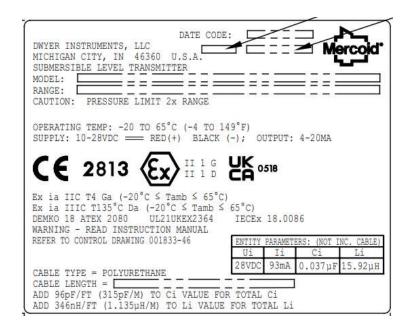
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Model IS626-**-GH-P*-E6-S1-ATEX-***



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

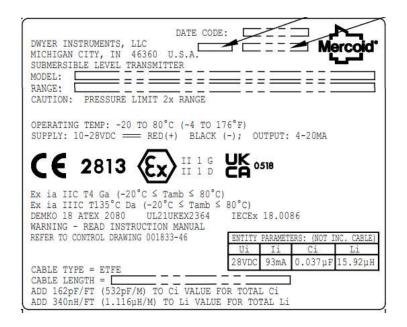




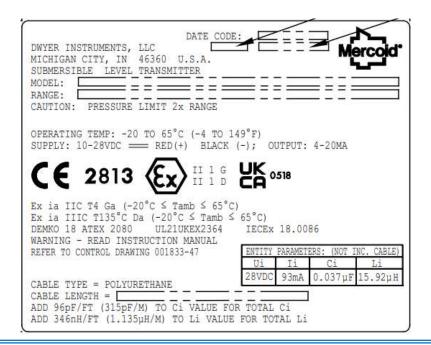
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Model SBLTX-****-*-**-ETFE-ATEX-***



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





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