



PE162/8

## EU DECLARATION OF CONFORMITY

Issuer: Pyropress Limited  
Address: Bell Close, Plympton, Plymouth, Devon, England, PL7 4JH

**The Manufacturer hereby declares that the intrinsically safe products types:-**

PYRP-28 Pressure Transmitter  
PYRD-28 Differential Pressure Transmitter  
PYRL-28 Level Transmitter

As being in compliance with the requirements of EU Directive 2014/34/EU, for the use in potentially explosive atmospheres:

II 1/2G Ex ia IIC T4/T5/T6 Ga/Gb  
I M1 Ex ia I Ma  
II 1D Ex ia IIIC T110°C Da  
II 1/2G Ex ia IIC T4 Ga/Gb – (for transmitters with connection ALW, ALM)

When used within the limitations & conditions of the product specifications, working instructions & **EC Type Examination Certificate Number: FTZU 13ATEX0042X**

**Harmonised standards applied:**

EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 50303:2000

**Other Directives applied:**

EMC – 2014/30/EU,  
Conformity assessment procedure: module A. Standard applied EN61326-1:2013  
Pressure Equipment 2014/68/EU(UE), modules, H1D + H1 (category IV).

**Other standards applied:**

EN 61326-1:2009

**Notified Body responsible for EC Type Examination Certificates:**

Physical-Technical Testing Institute, S.P., Pikartska 1337/7, 716 07 Ostrava - Radvanice, Czech Republic. Notified body No 1026.

**Notified Body responsible for Quality Assurance:**

Intertek Italia Spa, Via Guido Miglioli, 2/A, 20063 Cernusco sul Naviglio (MI), Italy.  
Notified body No 2575.

**Notified Body responsible for PED assessment:**

Bureau Veritas S.A., Newtime – 52 Boulevard du Parc – Lle de la Jatte, 92200, Neuilly Sur Seine, France. Notified body No 0062.

**Equipment Specification:** Product specifications are listed in the Technical file TCF 1061

**This Declaration may only be used in its entirety & without change.**

**Modification of this equipment / product without prior approval from Pyropress Limited will render this declaration null & void.**

Stephen Burns, Managing Director, On Behalf of Pyropress Limited

Signed..........Dated...30<sup>th</sup> October 2020.



Physical-Technical Testing Institute  
Ostrava - Radvanice



(1) **Supplementary EU - Type Examination Certificate No.1**

(2) **Equipment or Protective Systems Intended for Use  
in Potentially Explosive Atmospheres  
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

**FTZÚ 13 ATEX 0042X**

(4) Product: **Pressure transmitter PYRP-28IS, PYRP-28IS/SIL  
Differential pressure transmitter PYRD-28IS, PYRD-28IS/SIL  
Hydrostatic level probe PYRL-28IS**

(5) Manufacturer: **Pyropress Engineering**

(6) Address: **Bell Close, Plympton, Plymouth, Devon PL7 4JH England**

(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 13 ATEX 0042X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, 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.

(9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.

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

**EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 50303:2000**

(11) The marking of the product shall include the following:

**I M1 Ex ia I Ma**



**II 1/2G Ex ia IIC T4/T5/T6 Ga/Gb**

**II 1D Ex ia IIIC T110°C Da**

**II 1/2G Ex ia IIC T4 Ga/Gb** – (for transmitters with connection ALW, ALM)

(12) This certificate is valid till: **04.04.2023**

Responsible person:

*Lukáš Martinák*  
Dipl. Ing. Lukáš Martinák

Head of Certification Body



Date of issue: 28.05.2018

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**Physical-Technical Testing Institute  
Ostrava - Radvanice**

(13)

**Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 1  
to FTZÚ 13 ATEX 0042X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Modification of certified apparatus;
- Evaluation according to the newest standards;
- Prolongation of certificate validity.

Added versions of pressure transmitters and differential pressure transmitters with electrical connections type: PKD, PM12, ALW, ALM. Transmitters with electrical connection ALW or ALM are equipped with LCD display mounted on the plate AM1-rev2 enclosed in light alloy housing with PM12 or PD connector. Transmitters with electrical connection PKD, PM12 and ALW or ALM equipped with PM12 connector are allowed only to hazardous gas explosive atmospheres (Group II).

Transmitters with ALW or ALM connection with connector PD are allowed for gas and dust hazardous explosive atmospheres (Group II and Group III).

Added the ability to use layer of PTFE thickness max. 0.15mm covering the surfaces of pressure separators. Product PYRP-28 with diaphragm seals can be equipped with heat shrinkable sleeve.

Added replacements of previously used: silicone sealant, power cable and electrical connector PD.

Introduced other minor changes do not affect the intrinsic safety.

Ambient temperature:

$$T_a = -40^{\circ}\text{C to } +80^{\circ}\text{C}$$

Other technical parameters, intrinsically safe parameters and construction of apparatus remain unchanged.

(16) Report Number.: 13/0042/1

Responsible person:

*Lukáš Martinák*  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 28.05.2018

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Physical-Technical Testing Institute, s.p., Pikartská 1337/7, 716 07 Ostrava - Radvanice, Czech Republic  
tel +420 595 223 111, fax +420 596 232 672, ftzu@ftzu.cz, www.ftzu.cz



**Physical-Technical Testing Institute  
Ostrava - Radvanice**

(13)

**Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 1  
to FTZÚ 13 ATEX 0042X**

(17) **Specific Conditions of Use:**

1. Ambient temperature range – see Instruction manual and marking label.
2. Process temperature (medium) at the inlet of the transmitter must not exceed the stated ambient temperature rating.
3. When the transmitter is installed in a dust hazard atmosphere a fully galvanically isolated power supply should be used.
4. When fitted with a Titanium diaphragm seal, during installation and operation of the device the diaphragm seal should be protected against impact.
5. A transmitter fitted with an integral surge arrester, (marked "version SA" on the transmitter), does not meet the requirements of Section 6.3.13 of the EN 60079-11:2012 (500Vac isolation test). This should be noted at the time of installation.
6. Transmitters with display (with electrical connections ALW, ALM) and with diaphragm seals covered by PTFE, for Group III, should be installed in a place and in a way that prevents electrostatic charging.

(18) **Essential Health and Safety Requirements:**

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) **List of Documentation:**

<i>Document/Drawings:</i>	<i>Rev./Ver.:</i>	<i>Date:</i>	<i>Nr. of Pages:</i>
DTR.PYRP.PYRD.PYRL-28.02	F	02.2018	32

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 28.05.2018

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Physical Technical Testing Institute  
Ostrava – Radvanice



## EC-Type Examination Certificate

Equipment or Protective Systems Intended for Use  
in Potentially Explosive Atmospheres  
(Directive 94/9/EC)

(3) EC-Type Examination Certificate Number:

**FTZÚ 13 ATEX 0042X**

(4) Equipment or protective system: **Pressure transmitter PYRP-28IS, PYRP-28IS/SIL  
Differential pressure transmitter PYRD-28IS, PYRD-  
28IS/SIL Hydrostatic level probe PYRL-28IS**

(5) Manufacturer: **The Pyropress Engineering Company Limited**

(6) Address: **Bell Close, Plympton, Plymouth, Devon PL7 4JH England**

(7) This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physical Technical Testing Institute, notified body number 1026 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°:

**13/0042 dated 14.06.2013**

(9) Compliance with Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2009; EN 60079-11:2012; EN 60079-26:2007; EN 50303:2000**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include following:

**I M1 Ex ia I Ma**

**II 1/2G Ex ia IIC T4/T5/T6 Ga/Gb**

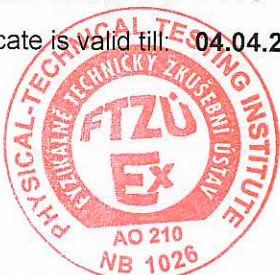
**II 1D Ex ia IIIC T110°C Da**



This EC-Type Examination Certificate is valid till **04.04.2018**

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 17.06.2013

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**Physical Technical Testing Institute  
Ostrava – Radvanice**

(13)

**Schedule**

(14) **EC-Type Examination Certificate N° FTZÚ 13 ATEX 0042X**

(15) Description of Equipment or Protective System:

The device is used as a pressure transmitter (PYRP-28IS), or differential pressure transmitter (PYRD-28IS), or hydrostatic level probe (PYRL-28IS). The device converts non electrical process variable, which is pressure, into electrical 4...20mA output signal.

The transmitter consists of:

- measurement head including pressure sensor (various types),
- fully encapsulated main PCB (additional small auxiliary PCBs might exist depending on version),
- steel cylindrical enclosure,
- cable connector (various types: with cable gland or fixed external cable).

Ambient temperature:  $-40^{\circ}\text{C} \dots T_{\text{amb}_{\text{max}}}$

Pi [W]	Tamb <sub>max</sub> [°C]	Temperature class, Group
0,7	+45	T6
	+80	T5, T4, Gr. I, Gr.III-110°C
1,2	+75	T5
	+80	T4, Gr. I, Gr.III-110°C

Intrinsic safe parameters:

In case of power supply with linear output characteristic:

Ui=28VDC, Ii=0,1A, Pi=0,7W, Ci=25nF+cable capacitance\*, Li=0,4mH+cable inductivity\*

In case of power supply with trapezoidal or rectangular output characteristic:

Ui=24VDC, Ii=0,1A, Pi=1,2W, Ci=25nF+cable capacitance\*, Li=0,4mH+cable inductivity\*

\* - concerns versions with PK(M) and SG(M) connectors; cable parameters C=200pF/m, L=1μH/m

(16) Report No.: 13/0042

(17) Special conditions for safe use:

17.1 Ambient temperature range – see Instruction manual and marking label.

17.2 The process temperature at the transmitter diaphragm must be the same as the permitted ambient temperature range.

17.3 When the transmitter is installed in a dust hazard atmosphere, the dust could create an internal isolation resistance fault leading to the external casing being made electrically live by the supply. It should be noted at the time of installation.

17.4 When fitted with a Titanium diaphragm seal, during installation and operation of the device the diaphragm seal should be protected against impact.

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 17.06.2013

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**Physical Technical Testing Institute  
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(13)

**Schedule**

(14) **EC-Type Examination Certificate N° FTZÚ 13 ATEX 0042X**

17.5 A transmitter fitted with an integral surge arrester, (marked with "version SA" on the transmitter), does not meet the requirements of Section 6.3.13 of the EN 60079-11:2012 (500Vac isolation test) and should be noted at the time of installation.

(18) **Essential Health and Safety Requirements:**

Essential health and safety requirement of Directive 94/9/EC are covered by the standard mentioned in (9), according which the product was verified and in the manufacturer's instruction for use.

(19) **List of Documentation:**

<i>Document/Drawings:</i>	<i>Rev./Ver.:</i>	<i>Date:</i>	<i>Nr. of Pages:</i>
DTR.PYRP.PYRD.PYRL-28	-	11.2012	30
PC28-C155-TA	-	11.2012	1

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



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