



## EC-Type Examination Certificate

- (1) **EC-Type Examination Certificate**  
(2) **Equipment or Protective Systems Intended for use  
in Potentially Explosive Atmospheres  
Directive 94/9/EC**

- (3) EC-Type Examination Certificate Number:

**FTZÚ 02 ATEX 0124**

- (4) Equipment or protective system: **In-line straight bi-directional flame arrester for stable  
detonation DN 25, type J 131.25/P4BD2**

- (5) Manufacturer: **ADAST – SYSTEMS a.s.**

- (6) Address: **Mírová 2, 679 04 Adamov, Czech republic**

- (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°

**02/0124 dated 14 August 2002**

- (9) Compliance with Essential Health and safety requirements has been assured by compliance with:

**EN 12874:2001**

- (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:

 **II 1G IIB**

This EC-Type Examination Certificate is valid till: **31 of August 2007**

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 23 of August 2002

Number of pages: 3

Page: 1/3

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Physical Technical Testing Institute  
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 02 ATEX 0124**

(15) Description of Equipment or Protective System:

In-line straight bi-directional flame arrester for detonation DN 25, type J 131.25/P4BD2 is designed as bi-directional arrester for stable detonation. Flame arrester consists of the following main parts:

- arrester housing;
- tape flame arrester element
- anti-detonation muffler
- connection flanges with internal thread G1"

Flame arrester element consists of three tape flame arrester elements with gap (high of crimped tape)  $\leq 0,4$  mm.

**Technical data:**

Nominal inside diameter of arrester	DN 25
Nominal pressure	PN 10
Test pressure	1,5 MPa
Explosion group	IIB
Constructional gap of joint in arrester element	$\leq 0,4$ mm
Service temperature	- 30 °C ..... + 60 °C
Service pressure	0,08 ..... 0,11 MPa
Mass	2,5 kg

(16) Report No. : 02/0124

(17) Special conditions for safe use: -

(18) Essential Health and Safety Requirements:

18.1 Apparatus comply with essential requirement of Directive 94/9/EC, including annex 2, clause 1.0.6.

18.2 Installation and service requirements comply with requirement in accordance with cl. 6.4 of EN 12874:2001 and are given in Instruction for installation, No. OÚ/011/2002/CZ.

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 23 of August 2002

Page: 2/3

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**Physical Technical Testing Institute  
Ostrava-Radvanice**

(13)

**Schedule**

(14) **EC-Type Examination Certificate N° FTZÚ 02 ATEX 0124**

(19)

**LIST OF DOCUMENTATION**

- Technical specification ... document No. 1109/2002 ... 06.05.2002
  
- Instruction for installation, service and maintenance ... No. OÚ/011/2002/CZ
  
- Drawings No:
  - 429 400 933 a ... 10.06.2002
  - 425 400 925 a ... 10.06.2002
  - 420 400 480 c ... 10.06.2002
  - 420 400 425 c ... 10.06.2002
  - 420 400 857 ... 10.06.2002
  - 420 400 856 a ... 10.06.2002
  
  - 425 400 926 a ... 10.06.2002
  - 420 400 853 b ... 10.06.2002
  - 420 400 372 i ... 10.06.2002
  - 420 400 375 b ... 10.06.2002
  - 420 400 374 a ... 10.06.2002
  - 420 400 376 ... 10.06.2002
  - 420 400 377 ... 10.06.2002
  - 420 400 373 ... 10.06.2002
  - 420 400 378 a ... 10.06.2002
  - 420 400 854 ... 10.06.2002
  - 420 400 855 ... 10.06.2002
  - 420 401 118 ... 10.06.2002
  
- Piece list No:
  - 429 400 933a ... 06.05.2002
  - 425 400 925 ... 10.06.2002
  - 425 400 926 ... 10.06.2002



(1) **Supplement No. 1 to  
EC-Type Examination Certificate**

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

(3) EC-Type Examination Certificate Number:

**FTZÚ 02 ATEX 0124**

(4) Equipment or protective system: **In-line straight bi-directional flame arrester for stable  
detonation DN 25, type J 131.25/P4BD2**

(5) Manufacturer: **ADAMOV – SYSTEMS, a.s.**

(6) Address: **Mírová 2, 679 04 Adamov, Czech Republic**

(7) This supplement of certificate is valid for: - extension of certificate validity

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination certificate is valid only for type examination of design and construction of product sample in accordance with Annex 3 Paragraph 6) of Directive No. 94/9/EC. The Directive contains another requirements, which manufacturer shall fulfil before products are place on market or introduce in service.

(10) Safety requirements of modified parts were fulfil by satisfying of following standards:

**EN 12874:2001**

(11) Marking of equipment designed according to this supplement shall contain symbols:

 **II 1G IIB**

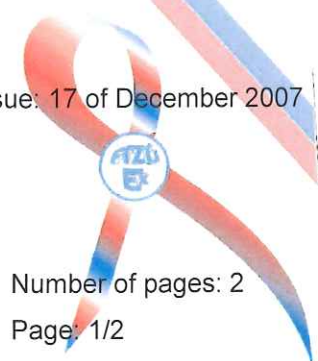
(12) This type examination certificate is valid till: **31. 12. 2012**

Responsible person:

Dipl. Ing. Šindler Jaroslav  
Head of certification body



Date of issue: 17 of December 2007



Number of pages: 2  
Page: 1/2



**Physical Technical Testing Institute  
Ostrava-Radvanice**

(13)

**Schedule**

(14)

**Supplement No. 1 to  
EC-Type Examination Certificate N° FTZÚ 02 ATEX 0124**

(15) Description of Equipment or Protective System:

Design of the flame arrester, type J 131.25/P4BD2, is without modification, the production and approval documentation weren't altered.

The standard EN 12874:2001 is still valid without any modification.

(16) Report No. : 02/0124 – supplement No.1

(17) Special conditions for safe use: -

(18) Essential Health and Safety Requirements:

18.1 The apparatus fulfil the essential health and safety requirement of Directive 94/9/EC, and standard mentioned in (10).

18.2 Installation and service requirements are given in Instruction for installation, service and maintenance No. OÚ/011/2002/CZ.

Responsible person:

Dipl. Ing. Šindler Jaroslav  
Head of certification body



Date of issue: 17 of December 2007

Number of pages: 2  
Page: 2/2

This supplement to certificate is granted subject to the general conditions of the Physical Technical Testing Institute.  
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(1) **Supplement No. 2 to  
EC-Type Examination Certificate**

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

(3) EC-Type Examination Certificate Number:

**FTZÚ 02 ATEX 0124**

(4) Equipment or protective system: **In-line straight bi-directional flame arrester for stable  
detonation DN 25, type J 131.25/P4BD2**

(5) Manufacturer: **Adast Systems, a.s.**

(6) Address: **Mírová 2, 679 04 Adamov, Czech Republic**

(7) This supplement of certificate is valid for: - modification of manufacturer's name  
- prolongation of certificate validity

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, a list of which is mentioned in the schedule of this certificate.

(9) This supplement to type examination certificate is valid only for type examination of design and construction of product sample in accordance with Annex 3 Paragraph 6) of Directive No. 94/9/EC. The Directive contains other requirements which the manufacturer shall fulfil before products are placed on the market or introduce in service.

(10) Safety requirements of modified parts were fulfil by satisfying of following standards:

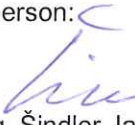
**EN 12 874:2001**

(11) Marking of equipment designed according to this supplement shall contain symbols:

 **II 1G IIB**

(12) This type examination certificate is valid till: **30.06.2015**

Responsible person:

  
Dipl. Ing. Šindler Jaroslav  
Head of certification body



Date of issue: 30.06.2010

Number of pages: 2  
Page: 1/2

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**Physical Technical Testing Institute  
Ostrava-Radvanice**

(13) **Schedule**

(14) **Supplement No. 2 to  
EC-Type Examination Certificate N° FTZÚ 02 ATEX 0124**

(15) Description of Equipment or Protective System:

Design of the flame arrester, type **J 131.25/P4BD2**, is the same.  
The standard EN 12874:2001 is still valid without any modification.  
Modification of manufacturer's name.

(16) Report No. : 02/0124 + supplement No.1 + supplement No.2

(17) Special conditions for safe use: --

(18) Essential Health and Safety Requirements:

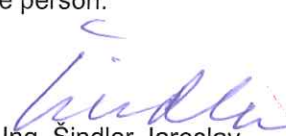
18.1 The apparatus fulfil the essential health and safety requirement of Directive 94/9/EC, and standard mentioned in (10).

18.2 Installation and service requirements are given in Instruction for installation, service and maintenance No. OÚ/006/2005/CZ.

(19) LIST OF DOCUMENTATION

- Instruction for installation, service and maintenance No. OÚ/011/2002/CZ on 8/2002 was replaced by Instruction for installation, service and maintenance No. OÚ/006/2005/CZ on 5/2010  
Further documentation see certificate FTZÚ 02 ATEX 0124 + supplement No.1.

Responsible person:

  
Dipl. Ing. Šindler Jaroslav  
Head of certification body



Date of issue: 30.06.2010

Number of pages: 2

Page: 2/2

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FTZÚ, Pikartská 7, 716 07 Ostrava Radvanice, tel +420 595 223 111, fax +420 596 232 672, e-mail: ftzu@ftzu.cz



(1) **Supplement No. 3 to  
EC-Type Examination Certificate**

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

(3) EC-Type Examination Certificate Number:

**FTZÚ 02 ATEX 0124X**

(4) Equipment or protective system: **Flame arrester for stable detonation, in-line, straight,  
bi-directional, DN25,  
Type J 131.25/P4BD2**

(5) Manufacturer: **Adast Systems, a.s.**

(6) Address: **Mírová 2, 679 04 Adamov, Czech Republic**

(7) This supplement of certificate is valid for: - verification according to standard listed in (10)

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination certificate is valid only for type examination of design and construction of product sample in accordance with Annex 3 Paragraph 6) of Directive No. 94/9/EC. The Directive contains other requirements, which manufacturer shall fulfil before products are place on market or introduce in service.

(10) Safety requirements of modified parts were fulfilled by satisfying the following standards:

**EN ISO 16852:2010**

(11) Marking of equipment designed according to this supplement shall contain symbols:



(12) The type examination certificate is valid till: 24. 05. 2017

Responsible person:

Dipl. Ing. Martinák Lukáš

Head of certification body



Date of issue: 24. 05. 2012

Page: 1/3

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Physical Technical Testing Institute  
Ostrava-Radvanice

(13)

Schedule

(14)

Supplement No. 3 to  
EC-Type Examination Certificate N° FTZÚ 02 ATEX 0124X

(15) Description of Equipment or protective system:

The design of the flame arrester type J 131.25/P4BD2 wasn't modified. This flame arrester is in-line, straight, bi-directional, for stable detonation DET 4.

The supplement verifies requirements of new standard mentioned in clause (10).

The marking was modified and the warning labels were added.

Size flame arrester:	DN25
Explosion group:	IIB
Service temperature:	$-20^{\circ}\text{C} \leq T_o \leq 60^{\circ}\text{C}$
Service pressure:	$p_o \leq 0,11 \text{ MPa}$
Stabilised burning	BC: c (without burning time)

(16) Report No.: 02/0124-3 on 23.05.2012

The sample of flame arrester for stable detonation was tested for stable detonation without restriction. During the all stable detonation tests and deflagration tests the flame arrester sample prevented flame transmission.

The burning test wasn't carried out.

(17) Special conditions for safe use:

17.1 Instruction for installation of this flame arrester are given in manufacturer's document No. OÚ/006/2005-DET/CZ -VII/2011.

17.2 The flame arrester wasn't verified for application where the burning can occur.

17.3 For safe application of flame arresters must be fulfil requirements according to EN ISO 16852 for installation, limits for use and supplementary protective measures.

(18) Essential Health and Safety Requirements: They are included in standards, which are mentioned in clause (10) of this certificate and manufacturer's documentation.

The other requirements and EC Directives can be valid for the product.

Responsible person:

Dipl. Ing. Martinák Lukáš

Head of certification body



Date of issue: 24. 05. 2012

Page: 2/3

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(13)

Schedule

(14)

Supplement No. 3 to  
EC-Type Examination Certificate N° FTZÚ 02 ATEX 0124X

(19) List of documentation:

Updated documentation:

Technical description No.	1109/2002	01.07.2011
Drawings No.:	429400933, revision c)	07.02.2011
	429301817	12.12.2011
	425400925, revision b)	02.02.2011
	425400926, revision a)	02.02.2011
	420401118, revision d)	31.01.2011
Instruction for use No.	OÚ/006/2005-DET/CZ VII/2011	24.11.2011
Supplement to documentation:		
Drawings No.:	425401744	31.01.2011
	420301741	31.01.2011

Responsible person:

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Page: 3/3

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