



EC-Type Examination Certificate

- (1)
- (2) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**
- (3) EC-Type Examination Certificate Number:
FTZÚ 05 ATEX 0301
- (4) Equipment or protective system: **Pressure Transmitter type APC-2000 EEx/XX PROFIBUS PA,
and Differential Pressure Transmitters type APR-2000 EEx/XX PROFIBUS PA and
APR-2200EEx/XX PROFIBUS PA**
- (5) Manufacturer: **APLISENS Sp. z o.o.**
- (6) Address: **ul. Morelowa 7, 03-192 Warszawa, Poland**
- (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°
05/0301 dated 13.10.2005
- (9) Compliance with Essential Health and safety requirements has been assured by compliance with:
EN 50014 : 1997+A1+A2; EN 50020 : 2002; EN 50284 : 1999
- (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 1/2G EEx ia IIB T5**

This EC-Type Examination Certificate is valid till: **17. 10. 2010**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 17.10.2005

Number of pages: 3

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Physical Technical Testing Institute
Ostrava-Radvanice

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(14) **EC-Type Examination Certificate N° FTZÚ 05 ATEX 0301**

(15) Description of Equipment or Protective System:

The APC-2000 EEx/XX PROFIBUS PA Pressure Transmitters and the APR-2000 EEx/XX PROFIBUS PA, APR-2200EEx/XX PROFIBUS PA Differential Pressure Transmitters are designed to convert process pressure measurements into a digital PROFIBUS PA communication signal.

The transmitter comprises several printed circuit boards and an optional liquid crystal display all housed in a light alloy enclosure. When the optional display is included, the housing cover contains a glass window. External connections are made via an integral terminal block.

The transmitters are allowed to be installed into the partition between the hazardous areas of category 1G and category 2G.

Technical parameters:

Powered from an intrinsically safe FISCO Power Supply (Coupler) with rectangular or trapezoidal characteristic: $U_i = 15 \text{ V}$; $I_i = 380 \text{ mA}$; $P_i = 5,32 \text{ W}$; $L_i \leq 10 \mu\text{H}$; $C_i \leq 5 \text{ nF}$

Ambient Temperature: $T_a = -40^\circ\text{C}$ to $+65^\circ\text{C}$

(16) Report No. : 05/0301

(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements:

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

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 17.10.2005

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(14) **EC-Type Examination Certificate N° FTZÚ 05 ATEX 0301**

(19)

LIST OF DOCUMENTATION

<i>Documents:</i>	<i>Date of FTZÚ verification:</i>
1. User and installation manual DTR.APC.APR.PROFIBUS (25 pages)	13.10.2005
2. Drawings No.:	
APC2000-A400-00 (2 sheets)	13.10.2005
APC2000-A400-01 (2 sheets)	13.10.2005
APC2000-A400-02 (1 sheet)	13.10.2005
APC2000-C401-TA (2 sheets)	13.10.2005
APC2000-S401-01 (5 sheets)	13.10.2005
APC2000-B402-TA (2 sheets)	13.10.2005
APC2000-B403-TA (6 sheets)	13.10.2005
APC2000-B304-TA (3 sheets)	13.10.2005
APC2000-B305-TA (2 sheets)	13.10.2005
APC2000-B307-00 (1 sheet)	13.10.2005
APC2000-A401-TA (2 sheets)	13.10.2005
APR2000-A401-TA (2 sheets)	13.10.2005
APC2000-A403-TA (1 sheet)	13.10.2005
APR2000-A402-TA (1 sheet)	13.10.2005
ZA-032-TA (1 sheet)	13.10.2005
ZA-038-TA (1 sheet)	13.10.2005
ZA-033-02 (1 sheet)	13.10.2005
ZG-018-TA (2 sheets)	13.10.2005
ZG-019-TA (2 sheets)	13.10.2005
ZG-002-TA (1 sheet)	13.10.2005
ZG-006-TA (1 sheet)	13.10.2005
GC1-001-TA (3 sheets)	13.10.2005
GC3-001-TA (3 sheets)	13.10.2005
GC4-001-TA (2 sheets)	13.10.2005
GR40-001-TA (2 sheets)	13.10.2005
GR40-002-TA (1 sheet)	13.10.2005
GR40-003-TA (1 sheet)	13.10.2005
3. Analysis of EN requirements No. AN: APC-2000EEx/XX PROFIBUS PA.01(10 pages)	13.10.2005

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 17.10.2005

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Supplement No. 1 to EC-Type Examination Certificate

- (1) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**
- (2) EC-Type Examination Certificate Number:
FTZÚ 05 ATEX 0301
- (3) Equipment or protective system: **Pressure Transmitter type APC-2000 EEx/XX PROFIBUS PA,
and Differential Pressure Transmitters type APR-2000 EEx/XX PROFIBUS PA and
APR-2200EEx/XX PROFIBUS PA**
- (4) Manufacturer: **APLISENS S.A.**
- (5) Address: **ul. Morelowa 7, 03-192 Warszawa, Poland**
- (6) This supplement of certificate is valid for: - application of new standards
- prolongation of certificate validity
- (7) 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.
- (8) 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.
- (9) Safety requirements of modified parts were fulfilled by satisfying the following standards:
EN 60079-0 : 2006; EN 60079-11 : 2007; EN 60079-26 : 2006
- (10) Marking of equipment shall contain symbols:

 **II 1/2G Ex ia IIB T5 Ga/Gb**

This EC-Type Examination Certificate is valid till: **17. 05. 2015**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 17.05.2010

Number of pages: 3
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Ostrava-Radvanice**

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(14) **Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0301**

(15) Description of Equipment or Protective System:

The certified apparatus is manufactured according to the verified documentation shown in the basic certificate and in this Supplement and complies with requirements of upgraded standards listed in (10).

The validity of the certificate is prolonged till 17.05.2015.

Technical data remain unchanged.

Type designation of apparatus changes to: APC-2000Ex/XX PROFIBUS PA, APR-2000Ex/XX PROFIBUS PA, APR-2200Ex/XX PROFIBUS PA

(16) Report No. : 05/0301/1

(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (10).

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 17.05.2010

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(13) **Schedule**

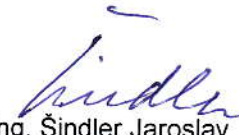
(14) **Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0301**

(19) **LIST OF DOCUMENTATION**

<i>Documentation:</i>	<i>Date:</i>
1. User and installation manual DTR.APC.APR.PROFIBUS.02 (25 pages)	04/2010
2. Drawings No.: APC2000-A400-02	04/2010
APC2000-A400-00 (2 sheets-1B, 2B)	04/2007
APC2000-A400-01 (2 sheets-1A, 2A)	04/2010
APC2000-C401-TA (3 sheets-1A, 2A, 3A)	04/2010

Responsible person:

Date of issue: 17.05.2010


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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 05 ATEX 0301

(4) Equipment or protective system: **Pressure Transmitter type APC-2000Ex/XX PROFIBUS PA, and
Differential Pressure Transmitters type APR-2000Ex/XX PROFIBUS PA and APR-2200Ex/XX
PROFIBUS PA**

(5) Manufacturer: **APLISENS S.A.**

(6) Address: **ul. Morelowa 7, 03-192 Warszawa, Poland**

(7) This supplement of certificate is valid for: - application of new standards
- prolongation of certificate validity
- modification of certified apparatus


(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 fulfilled by satisfying the following standards:

EN 60079-0:2009, EN 60079-11:2012, EN 60079-26:2007

(11) Marking of equipment shall contain symbols:

 **II 1/2G Ex ia IIB T5 Ga/Gb**

(12) This type examination certificate is valid till: **30.06.2017**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 22.06.2012

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Physical Technical Testing Institute
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(13) **Schedule**

(14) **Supplement No. 2 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0301**

(15) Description of Equipment or Protective System:

Done minor mechanical change of inner construction of the enclosure without affect to level of intrinsic safety. Remaining parts of construction of the enclosure remain without changes.
Technical parameters of the apparatus remain without changes.

(16) Report No.: 05/0301/2

(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements:

Essential health and safety requirement of Directive 94/9/EC are covered by the standards mentioned in clause (10) of this supplement according which the new model was verified and in the manufacturer's Instruction for Using.

(19) List of Documentation:

<i>Document/Drawing:</i>	<i>Version:</i>	<i>Date:</i>	<i>Nr.: of Pages:</i>
APC2000-A400-02	-	06.2012	1
A-250-04	-	05.2012	1
APC2000-A401-TA	1C	06.2012	1
APC2000-A401-TA	2C	06.2012	1
APR2000-A401-TA	1C	06.2012	1
APR2000-A401-TA	2C	06.2012	1

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 22.06.2012

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(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 05 ATEX 0301

(4) Equipment or protective system:

**Pressure Transmitter type APC-2000Ex/XX PROFIBUS PA and Differential Pressure Transmitters
type APR-2000Ex/XX PROFIBUS PA and APR-2200Ex/XX PROFIBUS PA**

(5) Manufacturer: **APLISENS S.A.**

(6) Address: **ul. Morelowa 7, 03-192 Warszawa, Poland**

(7) This supplement of certificate is valid for: - application of new standards
- modification of certified apparatus

(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 fulfilled by satisfying the following standards:

EN 60079-0:2012, EN 60079-11:2012

(11) Marking of equipment shall contain symbols:


 **II 1/2G Ex ia IIB T5 Ga/Gb**

 **II 1/2G Ex ia IIB T4 Ga/Gb**

Power supply $U_i = 17,5V$

(12) This type examination certificate is valid till: **30.06.2017**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 01.09.2015

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Physical Technical Testing Institute
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Supplement No. 3 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0301

(15) Description of Equipment or Protective System:

Added version of apparatus with the power supply voltage increased to 17,5V and Temperature Class changed to T4. There are minor changes in electric schematic diagram. Other parts of construction and electrical circuits remain without changes.

Intrinsically safe parameters of added version:

Powered from an intrinsically safe FISCO Power Supply (Coupler) with rectangular or trapezoidal characteristic:

$U_i = 17,5 \text{ V}$; $I_i = 380 \text{ mA}$; $P_i = 5,32 \text{ W}$; $L_i \leq 10 \mu\text{H}$; $C_i \leq 5 \text{ nF}$

Ambient Temperature:

$T_a = -40^\circ\text{C}$ to $+65^\circ\text{C}$

Other technical parameters of the apparatus remain without changes.

(16) Report No.: 05/0301/3

(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements:

Essential health and safety requirement of Directive 94/9/EC are covered by the standards mentioned in clause (10) of this supplement according which the new model was verified and in the manufacturer's Instruction for Using.

(19) List of Documentation:

Document/Drawing:	Type of sheet:	Date:	No of Pages:
APC2000-A400-02	1	07.2015	1
APC2000-A400-00	1C, 2C	07.2015	2
APC2000-A400-01	1B	07.2015	1
APC2000-C401-TA	1B, 3B	07.2015	2
APC2000-S401-01	1A	07.2015	1
APC2000-B402-TA	2A	07.2015	1
U1.AN:APC-2000Ex.PROFIBUS	1, 2, 3, 4, 5	07.2015	5

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 01.09.2015

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