Physical Technical Testing Institute

Ostrava-Radvanice

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 08 ATEX 0020

(4) Equipment or protective system:
Pressure Transmitter type APC-2000ALW/XX, Differential Pressure Transmitters type APR-2000ALW/XX, APR-2200ALW/XX, APR-2000GALW/XX and APR-2000YALW/XX

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

(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°

08/0020 dated 31.03.2008

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

EN 60079-0 : 2006; EN 60079-11 : 2007; EN 60079-26 : 2004

(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 Ex ia IIC T4/T5

This EC-Type Examination Certificate is valid till: **31. 03. 2013**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 31.03.2008

Number of pages: 3

Page: 1/3

FTZÚ, Pikartská 7, 716 07 Ostrava Radvanice, tel +420 596 232 715, fax +420 596 232 672, e-mail: ftzu@ftzu.cz

(13) **Schedule**

(14) EC-Type Examination Certificate N° FTZÚ 08 ATEX 0020

(15) Description of Equipment or Protective System:

The Pressure Transmitter type APC-2000ALW/XX, Differential Pressure Transmitters type APR-2000ALW/XX, APR-2200ALW/XX, APR-2000GALW/XX and APR-2000YALW/XX
Pressure Transmitters are designed to convert process pressure measurements into a 4 to 20 mA current signal. The apparatus 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.

Input parameters:

Linear power supply output characteristic:
U_i = 28 V; I_i = 0,1 A; P_i = 0,7 W; C_i = 20 nF; L_i = 1,1 mH, temperature class T5
Range of permissible ambient temperature: T_a = - 40°C to + 70°C
Trapezial power supply output characteristic:
U_i = 24 V; I_i = 50 mA; P_i = 0,7 W; C_i = 20 nF; L_i = 1,1 mH, temperature class T5
Range of permissible ambient temperature: T_a = - 40°C to + 80°C
Rectangular power supply output characteristic:
U_i = 24 V; Ii =25mA, P_i = 0,6 W; C_i = 20 nF; L_i = 1,1 mH, temperature class T5
U_i = 24 V; Ii =50mA, P_i = 1,2 W; C_i = 20 nF; L_i = 1,1 mH, temperature class T4
Range of permissible ambient temperature: T_a = - 40°C to + 80°C

(16) Report No. : 08/0020

(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

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ-TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 31.03.2008

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(13) **Schedule**

(14) **EC-Type Examination Certificate N° FTZÚ 08 ATEX 0020**

(19) **LIST OF DOCUMENTATION**

	Documentation:	*Date:*
1.	Technical documentation	12/2007
2.	Drawings No.: APC2000-A610-00 (2 sheets)	12/2007
	APC2000-A610-01 (3 sheets)	12/2007
	APC2000-A610-02 (1 sheet)	12/2007
	APC2000-C611-TA (3 sheets)	12/2007
	APC2000-S611-01 (4 sheets)	12/2007
	APC2000-B611-01 (2 sheets)	12/2007
	APC2000-B612-01 (8 sheets)	12/2007
	APC2000-B614-01 (3 sheets)	12/2007
	APC2000-B615-01 (1 sheet)	12/2007
	APC2000-B616-01 (1 sheet)	12/2007
	APR2000-B617-01 (1 sheet)	12/2007
	APC2000-B623-00 (2 sheets)	12/2007
	APR2000-B624-00 (2 sheets)	12/2007
	APC2000-A611-TA (2 sheets)	12/2007
	APR2000-A611-TA (2 sheets)	12/2007
	APR2000-A612-TA (3 sheets)	12/2007
	APR2000-A613-TA (2 sheets)	12/2007
	APC2000-A612-TA (1 sheet)	12/2007
	APR2000-A614-TA (1 sheet)	12/2007
	ZA-033-04 (1 sheet)	12/2007
	APC2000-B618-TA (2 sheets)	12/2007
	APR2000-B619-TA (3 sheets)	12/2007
	APR2000-B620-01 (2 sheets)	12/2007
	APR2000-B621-01 (2 sheets)	12/2007
	APC2000-B622-00 (1 sheet)	12/2007
	APC2000-C612-00 (1 sheet)	12/2007
	ZA-053-01 (1 sheet)	12/2007
	ZG-002-TA (1A sheet)	12/2007
	ZG-006-TA (1A sheet)	12/2007
	GC1-007-TA (3 sheets)	12/2007
	GC3-001-TA (3 sheets)	12/2007
	GC3-003-TA (2 sheets)	12/2007
	GC4-001-TA (3 sheets)	12/2007
	GC4-005-TA (3 sheets)	12/2007
	GR40-001-TA (2B sheets)	12/2007
	GR40-002-TA (1 sheet)	12/2007
	GR40-003-TA (1B sheet)	12/2007
3.	Analysis of EN requirements No.: AN.APC-2000ALW.Ex.01 (13 pages and 15 annexes)	12/2007
4.	Instruction manual No. DTR.APC.APR.ALW.01	03/2008

Responsible person:

Date of issue: 31.03.2008

Dipl. Ing. Šindler Jaroslav
Head of certification body

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Physical Technical Testing Institute

Ostrava-Radvanice

(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 08 ATEX 0020

(4) Equipment or protective system:

Pressure Transmitter type APC-2000ALW/XX, Differential Pressure Transmitters type APR-2000ALW/XX, APR-2200ALW/XX, APR-2000GALW/XX and APR-2000YALW/XX

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

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

(7) This supplement of certificate is valid for: - 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 : 2006; EN 60079-11 : 2007; EN 60079-26 : 2004

(11) Marking of equipment shall contain symbols:

II 1/2G Ex ia IIC T4/T5

(12) This type examination certificate is valid till: **31. 03. 2013**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ AO 210 NB 1026

Date of issue: 10.03.2010

Number of pages: 3
Page: 1/3

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(13) **Schedule**

(14) # Supplement No. 1 to EC-Type Examination Certificate N° FTZÚ 08 ATEX 0020

(15) Description of Equipment or Protective System:

Variation one, to permit:

Number of changes concerning both the mechanical construction and electronic design as described in updated drawings – see below. None of the changes affects intrinsic safety level. Technical parameters remain unchanged.

(16) Report No.: 08/0020/1

(17) Special conditions for safe use: -

(18) Essential Health and Safety Requirements:
Covered by standards mentioned in (10).

Responsible person:

Date of issue: 10.03.2010

Dipl. Ing. Šindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ Ex AO 210 NB 1026

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(13) **Schedule**

(14) **Supplement No. 1 to**

EC-Type Examination Certificate N° FTZÚ 08 ATEX 0020

(19) **LIST OF DOCUMENTATION**

Documentation:		***Date:***
• Drawings No.:	APC2000-A610-02 (2 sheets)	01/2010
	APC2000-A610-00 (2 sheets)	01/2010
	APC2000-A610-01 (sheet 3A)	01/2010
	APC2000-C611-01 (sheet 4A)	01/2010
	APC2000-B612-01 (sheets 1A, 3A, 6A, 7A)	01/2010
	APC2000-B613-01 (sheet 3A)	01/2010
	APC2000-B614-01 (sheet 3A)	01/2010
	APC2000-B617-01 (sheet 1A)	01/2010
	APC2000-B627-01 (2 sheets)	09/2009
	PC29-B012-01 (1 sheet)	09/2009
	PC29-B013-01 (1 sheet)	10/2009
	PC29-B014-01 (1 sheet)	10/2009
	APC2000-B624-00 (sheet 1A)	07/2009
	APC2000-A611-TA (3 sheets, 1A, 2A, 3A)	01/2010
	APR2000-A611-TA (3 sheets, 1A, 2A, 3A)	01/2010
	APR2000-A612-TA (3 sheets, 1A, 2A, 3A)	01/2010
	APR2000-A613-TA (3 sheets)	01/2010
	APC2000-A618-TA (3 sheets)	01/2010
	APR2000-B619-TA (4 sheets)	01/2010
	APR2000-B620-TA (3 sheets)	01/2010
	APR2000-B621-TA (3 sheets)	01/2010
	GC1-007-TA (3 sheets, 1A, 2A, 3A)	01/2010
	GC3-001-TA (3 sheets, 1A, 2A, 3A)	10/2009
	GC3-003-TA (2 sheets, 1A, 2A)	01/2010
	GC4-001-TA (3 sheets, 1A, 2A, 3A)	01/2010
	GC4-005-TA (3 sheets, 1A, 2A, 3A)	01/2010
	GR40-001-TA (2 sheets, 1C, 2C)	01/2010
	GR40-003-TA (1 sheet, 1C)	12/2009

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ-TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210

Date of issue: 10.03.2010

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Physical Technical Testing Institute

Ostrava-Radvanice

(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 08 ATEX 0020

(4) Equipment or protective system:
Pressure Transmitter type APC-2000ALW/XX, Differential Pressure Transmitters type APR-2000ALW/XX, APR-2200ALW/XX, APR-2000GALW/XX and APR-2000YALW/XX

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

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

(7) This supplement of certificate is valid for:
- modification of certified apparatus
- modification of apparatus marking
- new model (variant) – extension of series

(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 60079-11:2007; EN 60079-26:2007, EN 61241-11:2006, EN 50303:2000

(11) Marking of equipment shall contain symbols:

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

I M1 Ex ia I Ma (version with enclosure ss316)

II 1D Ex ia IIIC T105°C Da

(12) This type examination certificate is valid till: **31. 03. 2013**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ Ex AO 210 NB 1026

Date of issue: 21.07.2011

Number of pages: 3
Page: 1/3

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(13) **Schedule**

(14) # Supplement No. 2 to EC-Type Examination Certificate N° FTZÚ 08 ATEX 0020

(15) Description of Equipment or Protective System:

Variation two, to permit:

a) Version of transmitter is added with the revised filter PCB and changed values of Ci = 30nF, Li = 0.75 mH, and ambient temperature -25°C≤Ta≤55°C.
b) Added versions of transmitter of Group III and Group I
c) Added new cover version with a window made of polycarbonate with increased light-permeable surface.
d) Material of housing expanded for two light alloys and stainless steel ss316.
e) The transmitters with light alloy casing can be used in gas, and combustible dust atmospheres in Group II and III, but only with stainless steel housing in Group I applications.
f) Replacement of electronic components with equivalents, mechanical changes described in updated documentation
g) The certified apparatus complies with requirements of upgraded standards listed in (10).
h) Other changes not affect the intrinsic safety.
i) Other technical parameters remain unchanged.

(16) Report No.: 08/0020/2

(17) Special conditions for safe use: -

(18) Essential Health and Safety Requirements:
Covered by standards mentioned in (10).

Responsible person:

Dipl. Ing. Sindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ-TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 21.07.2011

FTZÚ, Pikartská 7, 716 07 Ostrava Radvanice, tel +420 596 232 715, fax +420 596 232 672, e-mail: ftzu@ftzu.cz

(13) **Schedule**

(14) **Supplement No. 2 to**

EC-Type Examination Certificate N° FTZÚ 08 ATEX 0020

(19) **LIST OF DOCUMENTATION**

Documentation:		***Date:***
1. Drawings No.:	APC2000-A610-00 (sheets 1B, 2B)	03/2011
	APC2000-A610-01 (sheet 1A, 2A, 3B)	03/2011
	APC2000-C611-TA (4 sheets)	03/2011
	APC2000-C671-01 (1 sheet)	03/2011
	APC2000-C671-02 (1 sheet)	03/2011
	APC2000-C671-03 (1 sheet)	03/2011
	APC2000-S671-01 (1 sheet)	03/2011
	APC2000-B671-01 (2 sheets)	02/2011
	APC2000-B612-01 (sheet 6B)	03/2011
	PC29-B012-02 (1 sheet)	12/2010
	APC2000-B624-00 (sheet 1B)	03/2011
	APC2000-A611-TA (sheets 1B, 2B, 3B)	03/2011
	APR2000-A611-TA (sheets 1B, 2B, 3B)	03/2011
	APR2000-A612-TA (sheets 1B, 3B)	03/2011
	APR2000-A613-TA (sheets 1A, 2A, 3A)	03/2011
	APC2000-B618-TA (sheet 3A)	03/2011
	ZA-027-TA (1 sheet)	03/2011
	EP-232-01 (1 sheet)	02/2011
	APC2000-A671-00 (2 sheets)	10/2010
	GR40-001-TA (sheets 1D, 2D)	09/2010

2. Supplement of analysis of EN requirements No.: U1-AN.APC-2000ALW.Ex.01 (3 pages and 3 annexes) 03/2011
3. Instruction manual No.: DTR.APC.APR.ALW.03 03/2011

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 21.07.2011

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Physical Technical Testing Institute

Ostrava-Radvanice

(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 08 ATEX 0020

(4) Equipment or protective system:
Pressure Transmitter type APC-2000ALW/XX, Differential Pressure Transmitters type APR-2000ALW/XX, APR-2200ALW/XX, APR-2000GALW/XX and APR-2000YALW/XX

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

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

(7) This supplement of certificate is valid for: - prolongation 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 fulfilled by satisfying the following standards:
EN 60079-0:2009; EN 60079-11:2007; EN 60079-26:2007, EN 61241-11:2006, EN 50303:2000

(11) Marking of equipment shall contain symbols:

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

Ex **I M1 Ex ia I Ma (version with enclosure ss316)**

Ex **II 1D Ex ia IIIC T105°C Da**

(12) This type examination certificate is valid till: **30. 01. 2017**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ Ex AO 210 NB 1026

Date of issue: 30.01.2012

Number of pages: 2
Page: 1/2

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(13) **Schedule**

(14) # Supplement No. 3 to EC-Type Examination Certificate N° FTZÚ 08 ATEX 0020

(15) Description of Equipment or Protective System:

Variation three, to permit:

The validity of the certificate is prolonged till 30.01.2017.

Technical data remain unchanged.

The certified apparatus is manufactured according to the verified documentation shown in the basic certificate, the Supplements No. 1 to No. 2 and in this Supplement.

(16) Report No.: 08/0020/3

(17) Special conditions for safe use: -

(18) Essential Health and Safety Requirements:
Covered by standards mentioned in (10).

(19) List of Documentation: -

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

Date of issue: 30.01.2012

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ-TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

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Physical Technical Testing Institute
Ostrava – Radvanice

(1) # Supplement No. 4 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 08 ATEX 0020X

(4) Equipment or protective system:
Pressure Transmitter type APC-2000ALW/XX, Differential Pressure Transmitters type APR-2000ALW/XX, APR-2200ALW/XX, APR-2000GALW/XX and APR-2000YALW/XX

(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 apparatus marking
- modification of certified apparatus
- new model (variant)–extension of series **APC-2000ALW/LXX**

(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, EN 50303:2000

(11) Marking of equipment shall contain symbols:

II 1/2G Ex ia IIC T4/T5 Ga/Gb
II 1/2G Ex ia IIB T4/T5 Ga/Gb version with teflon-shilelded cable
I M1 Ex ia I Ma version with enclosure ss316
II 1D Ex ia IIIC T105°C Da

(12) This type examination certificate is valid till: **30.01.2017**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 07.03.2013

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tel +420 595 223 111, fax +420 596 232 672, ftzu@ftzu.cz, www.ftzu.cz

(13) **Schedule**

(14) # Supplement No. 4 to EC-Type Examination Certificate N° FTZÚ 08 ATEX 0020X

(15) Description of Equipment or Protective System:

Added version of transmitter with revised filter PCB and changed values Ci = 2.5nF, Li = 18 µH, marked on the label as version „**SC**".

Added new printed circuit board PCB A/D MPC5-AD-rev4.

Introduces transmitters marked **APC-2000ALW/LXX** with sensor on the cable.

Minor changes with no influnce to intrinsic safety.

Other technical parameters and construction of apparatus remain unchanged.

(16) Report No.: 08/0020/4

(17) Special conditions for safe use:

17.1 Version of transmitter with surge arrester marked on plate „SC, SA", does not meet the requirements of Section 10.3 of the standard EN 60079-11:2012 (500Vrms). This must be taken into account when installing the equipment.

(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.

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ-TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 07.03.2013

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tel +420 595 223 111, fax +420 596 232 672, ftzu@ftzu.cz, www.ftzu.cz

(13) **Schedule**

(14) # Supplement No. 4 to EC-Type Examination Certificate N° FTZÚ 08 ATEX 0020X

(19) List of Documentation:

Document/Drawings:	*Type of sheet:*	*Date:*	*Nr. of pages:*
APC2000-A610-02	1	11.2012	1
APC2000-A610-00	1C, 2C	11.2012	2
APC2000-A610-01	1B, 2B, 3C	11.2012	3
APC2000-C611-TA	1A, 2A, 3A, 4A, 5	11.2012	5
APC2000-S611-01	1A, 4B	11.2012	2
APC2000-S611-01	4C	10.2012	1
APC2000-B621-TA	1, 2	11.2012	2
APC2000-B611-01	1A, 2A	09.2011	2
APC2000-B612-01	6C	11.2012	1
APC2000-B627-01	2A	01.2012	1
APC2000-B628-01	1,2	10.2012	2
APC2000-A611-TA	1C, 2C, 3C, 4	11.2012	4
APR2000-A611-TA	1C, 2C, 3C, 4	11.2012	4
APR2000-A612-TA	1C, 2B, 3C, 4	11.2012	4
APR2000-A613-TA	1B, 2B, 3B, 4	11.2012	4
APC2000-A620-TA	1, 2, 3, 4	11.2012	4
ZA-033-05	1	01.2008	1
APC2000-B618-TA	1A, 2A, 3B	11.2012	3
APR2000-B619-TA	1A, 2A	11.2012	2
APR2000-B619-TA	3A	09.2012	1
APR2000-B620-TA	1A, 2A, 4	11.2012	3
APR2000-B620-TA	3A	08.2012	1
APR2000-B621-TA	1A, 2A, 3A	11.2012	3
APC2000-B619-TA	1, 2, 3,	11.2012	3
APC2000-B630-TA	1, 2, 3	11.2012	3
U2-AN.APC-2000ALW.Ex.01	-	11.2012	2
DTR.APC.APR.ALW.03	-	01.2013	62

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE
FTZÚ Ex
AO 210
NB 1026

Date of issue: 07.03.2013

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Physical Technical Testing Institute
Ostrava – Radvanice

(1) # Supplement No. 5 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 08 ATEX 0020X

(4) Equipment or protective system:
Pressure Transmitter type APC-2000ALW/XX, Differential Pressure Transmitters type APR-2000ALW/XX, APR-2200ALW/XX, APR-2000GALW/XX and APR-2000YALW/XX

(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 apparatus marking
- modification of certified apparatus
- new model (variant)–extension of series **APR-2000ALW/LXX**
  APR-2200ALW/LXX

(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, EN 60079-26:2007, EN 50303:2000

(11) Marking of equipment shall contain symbols:

II 1/2G Ex ia IIC T5/T6 Ga/Gb
II 1/2G Ex ia IIB T5/T6 Ga/Gb version with teflon-shilelded cable
I M1 Ex ia I Ma version with enclosure ss316
II 1D Ex ia IIIC T105°C Da

(12) This type examination certificate is valid till: **30.01.2017**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE
FTZÚ Ex
AO 210
NB 1026

Date of issue: 27.01.2015

FTZÚ, s.p., Pikartská 1337/7, 716 07 Ostrava-Radvanice, Czech Republic,
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(13) **Schedule**

(14) # Supplement No. 5 to EC-Type Examination Certificate N° FTZÚ 08 ATEX 0020X

(15) Description of Equipment or Protective System:

Added versions of transmitter with the revised main PCB MPC5-rev3, with the amended marking and input parameters.

Versions of transmitter with PCB MPC5-rev3 replace versions of transmitter with main PCB MPC5-rev1 except for versions marked on the plate „SC" , „SC, SA" and versions in accordance with EN 12405-1. These versions of transmitters have the marking and the parameter values as specified in the basic certificate and supplements to No. 1, 2, 3, 4.

Added a new type of rotary cover of main PCB MPC5-rev3.

Added new printed circuit board A / D MPC5-AD-rev5.

Introduced the housing side cover with the glued glass panel.

Added new types of pressure and differential pressure sensors.

Introduced minor other changes do not affect the intrinsic safety.

Other technical parameters and construction of apparatus remain unchanged.

Intrinsically safe input power supply parameters:

Linear power supply output characteristic:
Ui = 30 V; Ii = 0,1 A; Pi = 0,75 W; Ta ≤ +40°C - temperature class T6, Ta ≤ +80°C - temperature class T5
Range of permissible ambient temperature: Ta = -40°C to +40/80°C

Trapezoidal power supply output characteristic:
Ui = 24 V; Ii = 50 mA; Pi = 0,7 W; temperature class T5
Range of permissible ambient temperature: Ta = -40°C to +80°C

Rectangular power supply output characteristic:
Ui = 24 V; Ii = 25mA, Pi = 0,6 W; Ta ≤ +40°C - temperature class T6, Ta ≤ +80°C - temperature class T5
Range of permissible ambient temperature: Ta = -40°C to +40/80°C
Ui = 24 V; Ii = 50mA, Pi = 1,2 W; temperature class T5
Range of permissible ambient temperature: Ta = -40°C to +70°C

Intrinsically safe parameters:

Ci = 2,5 nF; Li = 18 µH,

Responsible person:
Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ Ex AO 210 NB 1026

Date of issue: 27.01.2015

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(13) Schedule

(14) # Supplement No. 5 to
EC-Type Examination Certificate N° FTZÚ 08 ATEX 0020X

(16) Report No.: 08/0020/5

(17) Special conditions for safe use:

17.1 Versions of transmitter with surge arrester marked on plate „SC, SA“ or “SA”, do not meet the requirements of Section 10.3 of the standard EN 60079-11:2012 (500Vrms). This must be taken into account when installing the equipment.

(18) Essential Health and Safety Requirements:

Essential health and safety requirements 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.

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ Ex AO 210 NB 1026

Date of issue: 27.01.2015

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(13) **Schedule**

(14) # Supplement No. 5 to EC-Type Examination Certificate N° FTZÚ 08 ATEX 0020X

(19) List of Documentation:

Document/Drawings:	*Type of sheet:*	*Date:*	*Nr. of pages:*
APC2000-A610-00	1D, 2D, 3	03.2014	3
APC2000-A610-01	1C, 2C, 3D	03.2014	3
APC2000-C611-TA	1B-4B, 5A	03.2014	5
APC2000-S602-01	1	02.2013	1
APC2000-S611-01	1B	02.2014	1
APC2000-S605-01	1	02.2014	1
APC2000-B621-TA	1A, 2A	02.2014	2
APC2000-B602-01	1-9	02.2014	9
APC2000-B603-TA	1	03.2013	1
APC2000-B605-01	1, 2	02.2014	2
APC2000-A611-TA	1D-3D, 4A, 5	03.2014	5
APR2000-A611-TA	1D-3D, 4A, 5	03.2014	5
APR2000-A612-TA	1D, 2C, 3D, 4A,5-7	03.2014	7
APR2000-A613-TA	1C-3C, 4A, 5	03.2014	5
APC2000-A620-TA	1A-4A, 5	03.2014	5
APR2000-A620-TA	1-5	03.2014	5
APR2000-A621-TA	1	02.2014	1
APC2000-A611-U	1	04.2014	1
ZA-033-04	1A	03.2014	1
ZA-033-05	1A	03.2014	1
APC2000-B618-TA	1B, 2B	03.2014	2
APC2000-B604-TA	1, 2	03.2014	2
APR2000-B619-TA	1B, 2B	03.2014	2
APR2000-B620-TA	1B-3B, 4A, 5	03.2014	5
APR2000-B621-TA	1B, 2B	03.2014	2
APC2000-B619-TA	1A-3A	03.2014	3
APC2000-B600-TA	1-3	03.2014	3
APR2000-B627-TA	1, 2	03.2014	2
APC2000-B606-01	1	03.2014	1
ZA-065-TA	1	06.2013	1
ZA-068-TA	1A	06.2013	1
GR40-002-TA	1A	02.2014	1
GR40-003-TA	1E, 2E	02.2014	2
AN:APC2000ALW.Ex.02	1-17	04.2014	17

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ Ex AO 210 NB 1026

Date of issue: 27.01.2015

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Physical-Technical Testing Institute

Ostrava - Radvanice

(1) Supplementary EU - Type Examination Certificate No.6

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

(3) EU - Type Examination Certificate number:

FTZÚ 08 ATEX 0020X

(4) Product: **Pressure Transmitter type APC-2000ALW/XX, Differential Pressure Transmitters type APR-2000ALW/XX, APR-2200ALW/XX, APR-2000GALW/XX, APR-2000ALW/LXX and APR-2200ALW/LXX, Level Probe type APR-2000YALW, Level Transmitter type APC-2000ALW/LXX, Density Transmitter type APR-2200ALW/D**

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

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

(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 08 ATEX 0020X 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:

II 1/2G Ex ia IIC T4/T5 Ga/Gb
II 1/2G Ex ia IIB T4/T5 Ga/Gb version with PTFE-shielded cable
I M1 Ex ia I Ma version with enclosure ss316
II 1D Ex ia IIIC T105°C Da

(12) This certificate is valid till: **31.01.2022**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex NB 1026

Date of issue: 30.01.2017

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(13) **Schedule**

(14) # Supplementary EU - Type Examination Certificate No. 6 to FTZÚ 08 ATEX 0020X

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Modification of certified apparatus;
- Modification of apparatus marking;
- Adding new model (variant) – APR-2200ALW/D – Density Transmitter;
- Evaluation according to the newest standards;
- Prolongation of certificate validity.

This supplementary certificate accepts these changes of the Product:

- Changes in numbering of documentation.
- Introduced new type of apparatus – APR-2200ALW/D – Density Transmitter based on Differential Pressure Transmitters APR-2200ALW.
- Added new version of main PCB MPC5-rev1.2. Removed PCB MPC5-rev1 (model SC and SC SA) except for pressure transmitter with MID implementation.
- Added new version of connection MPC5-FH-Exi-Exd-rev1.
- Added new terminal block on connection PCB MPC5-FHI rev1-Ex with identical parameters.
- Added new version of PCB MPC5-AD-rev5.1 with minor changes.
- Measuring heads are compounded by casting compound of new type.
- Added the ability to use sprayed layer of PTFE Kontaflon 85 or other.
- Added the ability to use layer of PTFE thickness max. 0.15mm covering the wetted surfaces of diaphragm seals.
- New version of marking label, united for ATEX and IECEx.
- There are minor change in used electrical components and mechanical parts.
- Galvanically separated part of apparatus placed into measuring head is electrically connected with mass of enclosure.
- Introduced version of transmitter allowed for hazardous explosive gas atmospheres with minimum ambient temperature Ta ≤ -50°C.
- Temperature class of apparatus with main PCB MPC5-rev1.2 is changed to T4/T5.

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 30.01.2017

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(13) **Schedule**

(14) # Supplementary EU - Type Examination Certificate No. 6 to FTZÚ 08 ATEX 0020X

Intrinsically safe input power supply parameters:
Linear power supply output characteristic:
Ui = 30 V; Ii = 0,1 A; Pi = 0,75 W; temperature class T5

Trapezoidal power supply output characteristic:
Ui = 24 V; Ii = 50 mA; Pi = 0,7 W; temperature class T5

Rectangular power supply output characteristic:
Ui = 24 V; Ii =25mA, Pi = 0,6 W; temperature class T5
Ui = 24 V; Ii =50mA, Pi = 1,2 W; temperature class T4

Intrinsically safe parameters
Ci = 2,5 nF; Li = 18 µH,

Range of permissible ambient temperature: Ta = - 50°C to +80°C for category 1G/2G
Range of permissible ambient temperature: Ta = - 40°C to +80°C for category 1D and M1

(16) Report Number.: 08/0020/6

(17) Specific Conditions of Use:

Additional to those listed previously.

1. Versions of transmitter with surge arrester marked on plate "SA", do not meet the requirements of Section 10.3 of the standard EN 60079-11:2012 (500Vrms). This must be taken into account when installing the equipment.
2. Under certain extreme circumstances in dust explosive atmospheres, the device with painting of aluminum enclosure and with plastic tables and with elements of diaphragm seals covered by PTFE may store an ignition-capable level of electrostatic charge. The device shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge.
3. If the diaphragm seal contains titan parts, it must be protected against mechanical drops.
4. Galvanically separated part of apparatus placed into measuring head is electrically connected with mass of enclosure. It should be taken into account when installing the apparatus with remote measuring head on cable.

Responsible person:
Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE
FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV
FTZÚ Ex
AO 210
NB 1026

Date of issue: 30.01.2017

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(13) **Schedule**

(14) # Supplementary EU - Type Examination Certificate No. 6 to FTZÚ 08 ATEX 0020X

(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) Drawings and Documents:

Title / Drawing No.	Sheet:	Date:	Nr. of Pages:
APC2000-A610-02	1, 2	11.2016	2
APC2000-A610-00	1E, 2E	11.2016	2
APC2000-A610-01	1D,2D,3E	11.2016	3
(CER.Exi)APC2000-C611-TA	1, 2, 3	11.2016	3
APC2000-S646-01	1	11.2016	1
APC2000-S639-01	1	01.2016	1
APC2000-S605-01	1A	11.2016	1
APC2000-B646-TA	1, 2	11.2016	2
APC2000-B639-TA	1-8	11.2016	8
APC2000-B603-TA	1A	11.2016	1
APC2000-B606-01	1	03.2014	1
APC2000-B635-01	1, 2	06.2015	2
(CER.Exi)APC2000-A622-TA	1-6	11.2016	6
(CER.Exi)APC2000-A623-TA	1-4	11.2016	4
APC2000-A612-TA	1A	11.2016	1
APR2000-A614-TA	1A	11.2016	1
APR2000-A621-TA	1A	11.2016	1
APC2000-A611-U	1A	11.2016	1
(CER.XX)APC2000-B643-TA	1, 2	11.2016	2
APC2000-B618-TA	1C, 2C	11.2016	2
APR2000-B627-TA	1A, 2A	11.2016	2
ZA-083-TA	1	11.2016	1
U3.AN.APC-2000ALW.Ex.01	1-4	11.2016	4
DTR.APC.APR.ALW.03	E	11.2016	68

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 30.01.2017

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Physical-Technical Testing Institute
Ostrava - Radvanice

(1) Supplementary EU - Type Examination Certificate No.7

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

(3) EU - Type Examination Certificate number:

FTZÚ 08 ATEX 0020X

(4) Product: **Pressure Transmitter type APC-2000ALW/XX; Differential Pressure Transmitters type APR-2000ALW/XX, APR-2200ALW/XX, APR-2000GALW/XX, APR-2000ALW/LXX and APR-2200ALW/LXX; Level Probe type APR-2000YALW; Level Transmitter type APC-2000ALW/LXX; Density Transmitter type APR-2200ALW/D**

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

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

(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 08 ATEX 0020X 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

If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

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

II 1/2G	Ex ia IIC T4/T5 Ga/Gb	
II 1/2G	Ex ia IIB T4/T5 Ga/Gb	version with PTFE-shielded cable
I M1	Ex ia I Ma	version with enclosure ss316
II 1D	Ex ia IIIC T105°C Da	

(12) This certificate is valid till: **31.07.2022**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

Date of issue: 31.01.2022

Physical-Technical Testing Institute, s.p., Pikartská 1337/7, 716 00 Ostrava - Radvanice, Czech Republic
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(13) **Schedule**

(14) Supplementary EU - Type Examination Certificate No. 7 to FTZÚ 08 ATEX 0020X

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Extension of certificate validity.

Technical parameters and construction of the products mentioned above in clause (4) remain unchanged.

The validity of certificate was extended for next six months until 31.07.2022.

(16) Report Number: 08/0020/7

(17) Specific Conditions of Use:

None additional to those listed previously.

(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.

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex AO 210 NB 1026

Date of issue: 31.01.2022

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Physical-Technical Testing Institute
Ostrava - Radvanice

(1) Supplementary EU - Type Examination Certificate No. 8

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

(3) EU - Type Examination Certificate number:

FTZÚ 08 ATEX 0020X

(4) Product: **Pressure Transmitter type APC-2000ALW/XX, Differential Pressure Transmitters type APR-2000ALW/XX, APR-2000ALW/GXX, APR-2000ALW/LXX, Level Probe type APR-2000YALW, Level Transmitter type APC-2000ALW/LXX, Density Transmitter type APR-2200ALW/D**

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

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

(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 08 ATEX 0020X 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 IEC 60079-0:2018; EN 60079-11:2012; EN 50303:2000

If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

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

II 1/2G	**Ex ia IIC T4/T5 Ga/Gb**	version with PTFE-shilelded cable
II 1/2G	**Ex ia IIB T4/T5 Ga/Gb**	version with PTFE covered separator
I M1	**Ex ia I Ma**	version with enclosure ss316
II 1D	**Ex ia IIIC T115°C Da**	

(12) This certificate is valid till: **31.08.2027**

Responsible person:

v z.

Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV

Date of issue: 01.08.2022

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(13) **Schedule**

(14) # Supplementary EU - Type Examination Certificate No. 8 to FTZÚ 08 ATEX 0020X

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Modification of certified apparatus.
- Renaming current type names: APR-2000GALW to APR-2000ALW/G;
  APR-2200ALW to APR-2000ALW;
  APR-2200ALW/L to APR-2000ALW/L.
- Modification of apparatus marking.
- Evaluation according to the newest standards.
- Extension of certificate validity.

This supplementary certificate describes changes of the Product:

- The surface temperature in dust explosive atmosphere is changed to 115°C.
- Formerly marking ⟨Ex⟩ II 1D Ex ia IIIC T105°C Da is changed to ⟨Ex⟩ II 1D Ex ia IIIC T115°C Da.
- Changed these PCBs and components, MPC5-FHI-Exi-Exd-rev1 updated to rev2, MPC5-FHI-rev1-Ex removed, bushing assembly assembled with PCB MPC5-FHI-rev1-Ex, booth removed, differential pressure head GR40-001-TA removed, MPC5-rev1.2 removed, MPC5-rev3.002 added, MPC5-AD-rev6.0 added, culvert assembly assembled with PCB MPC5-FHI-Exi-Exd-rev2 added, differential pressure heads GR40-108-TA, GR40-109-TA added.
- Change of "mass" mounting technology from screwed to solder.
- Minor mechanical changes in construction of pressure heads.
- There are minor change in used electrical components and mechanical parts.
- Added the possibility of 0.35 mm PTFE foil on separating membrane, only for Group IIB.
- Introduction of the cable in a Teflon tube braided with steel sheathing.
- Introduced 5x7 steel sheathed cable.
- Updating and correction of documentation.

Technical parameters and construction of the products mentioned above in clause (4) remain unchanged.

(16) Report Number: 08/0020/8

Responsible person:
v z. Jga
Dipl. Ing. Lukáš Martinák
Head of Certification Body

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ Ex NB 1026

Date of issue: 01.08.2022

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(13) **Schedule**

(14) Supplementary EU - Type Examination Certificate No. 8 to FTZÚ 08 ATEX 0020X

(17) Specific Conditions of Use (modified):

1. Versions of transmitter with surge arrester marked on plate "SA", do not meet the requirements of Section 10.3 of the standard EN 60079-11:2012 (500 Vrms). This must be taken into account when installing the equipment.
2. Under certain extreme circumstances in dust explosive atmospheres, the device with painting of enclosure and with plastic tables and with elements of diaphragm seals covered by PTFE may store an ignition-capable level of electrostatic charge. The device shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge.
3. If the diaphragm seal contains titan parts, it must be protected against mechanical drops.
4. Galvanically separated part of apparatus placed into measuring head is electrically connected with mass of enclosure. It should be taken into account when installing the apparatus with remote measuring head on cable.

(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) Drawings and Documents:

Number	Sheets	Date	Description
APC2000-A610-02	1, 2	06.2022	List of changes no. 6
APC2000-A610-01	1E, 2E, 3F	12.2021	Technical description
APC2000-A610-00	1F, 2F, 3F	06.2022	List of drawings
(CER.Exi)APC2000-C611-TA	1A, 2A, 3A	10.2021	Marking label
APC2000-S647-TA	1	04.2018	MPC5-FHI-Exi-Exd-rev2 scheme
APC2000-S609-02	1	06-2022	MPC5-rev3.002 scheme
APC2000-S657-TA	1	02.2018	MPC5-AD-rev6.0 scheme
APC2000-B647-TA	1, 2, 3	04.2018	MPC5-FHI-Exi-Exd-rev2 PCB
APC2000-B602-01	8A	03.2019	MPC5-rev3 PCB
APC2000-B603-TA	1B	06.2022	Complete display board assembly
APC2000-B609-02	1...7	06.2022	MPC5-rev3.002 PCB
APC2000-B657-TA	1, 2	02.2018	MPC5-AD-rev6.0 PCB
(CER.Exi)APC2000-A622-TA	1A, 2A, 3A, 4A, 5A, 6A	10.2021	Transmitters APC-2000ALW...

Responsible person:

v z. Igor

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(13) **Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 8 to FTZÚ 08 ATEX 0020X**

(19) Drawings and Documents (continuation):

Number	Sheets	Date	Description
(CER.Exi)APC2000-A623-TA	1A, 2A, 3A, 4A	10.2021	Level probe
APC2000-A612-TA	1B	10.2021	APC2000ALW with separators
APR2000-A614-TA	1B	10.2021	APR2000ALW with separators
ARR2000-A621-TA	1B	10.2018	APR2000ALW/L with separators
ZA-033-06	1	08.2018	Culvert assembly
APC2000-B618-TA	1D 2E	08.2018 10.2021	Pressure head assembly
APC2000-B604-TA	1C, 2C	08.2018	Pressure head HS assembly
APR2000-B619-TA	1D, 2D	08.2018	Differential pressure head assembly
APR2000-B620-TA	1F, 2F, 3F	03.2020	Differential pressure head assembly
APR2000-B621-TA	1D, 2D	08.2018	Differential pressure head assembly
APC2000-B619-TA	1C 2C 3D	12.2020 11.2016 10.2021	Pressure and level head assembly
APC2000-B600-TA	1B, 2B 3C	12.2020 10.2021	Level head assembly
APR2000-B627-TA	1A, 3 2A	03.2021 10.2021	Differential pressure head assembly
ZA-065-TA	1C	07.2021	Cover with window assembly
ZA-083-TA	1B	08.2020	Cover with window assembly
GC3-001-TA	1D, 2D, 3D	01.2019	Pressure head
GC3-003-TA	1B, 2B	01.2019	Pressure head with diaphragm
GC4-001-TA	1D, 2D, 3D	01.2019	Pressure head
GC4-005-TA	1D, 2D, 3D	07.2017	High pressure head
GR40-108-TA	1E, 2E, 3E, 4E	01.2019	Differential pressure head
GR40-109-TA	1B, 2B, 3B, 4B	02.2019	Differential pressure head
GR40-002-TA	1B	02.2019	Differential pressure head
GR40-003-TA	1F, 2F	02.2014	Differential pressure head
U4.AN. APC – 2000ALW.Ex.01	1-4	06.2022	ATEX analysis
PL.IX.APC.APR.ALW 01.A.006	1-20	06.2022	User manual

Responsible person:

v z.

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