



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



Date of issue: 31.03.2008

Number of pages: 3

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Physical Technical Testing Institute
Ostrava-Radvanice

(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:

$U_i = 28 \text{ V}$; $I_i = 0,1 \text{ A}$; $P_i = 0,7 \text{ W}$; $C_i = 20 \text{ nF}$; $L_i = 1,1 \text{ mH}$, temperature class T5

Range of permissible ambient temperature: $T_a = -40^\circ\text{C}$ to $+70^\circ\text{C}$

Trapezoidal power supply output characteristic:

$U_i = 24 \text{ V}$; $I_i = 50 \text{ mA}$; $P_i = 0,7 \text{ W}$; $C_i = 20 \text{ nF}$; $L_i = 1,1 \text{ mH}$, temperature class T5

Range of permissible ambient temperature: $T_a = -40^\circ\text{C}$ to $+80^\circ\text{C}$

Rectangular power supply output characteristic:

$U_i = 24 \text{ V}$; $I_i = 25 \text{ mA}$, $P_i = 0,6 \text{ W}$; $C_i = 20 \text{ nF}$; $L_i = 1,1 \text{ mH}$, temperature class T5

$U_i = 24 \text{ V}$; $I_i = 50 \text{ mA}$, $P_i = 1,2 \text{ W}$; $C_i = 20 \text{ nF}$; $L_i = 1,1 \text{ mH}$, temperature class T4

Range of permissible ambient temperature: $T_a = -40^\circ\text{C}$ to $+80^\circ\text{C}$

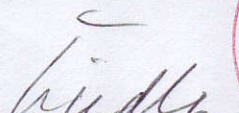
(16) Report No. : 08/0020

(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:


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Head of certification body



Date of issue: 31.03.2008

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Schedule

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

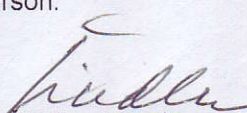
(19)

LIST OF DOCUMENTATION

<i>Documentation:</i>	<i>Date:</i>
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


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