



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 0056X

(4) Equipment or protective system: **APC-2000 EEx/AL Series Pressure Transmitter
and APR-2000 EEx/AL and APR-2200EEx/AL Series Differential Pressure Transmitter**

(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°

05/0056 dated 20.04.2005

(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 IIC T5/T6

This EC-Type Examination Certificate is valid till: **29. 04. 2010**

Responsible person:

Date of issue: **29.04.2005**


Dipl. Ing. Šindler Jaroslav

Head of certification body



Number of pages: **3**

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 05 ATEX 0056X**

(15) Description of Equipment or Protective System:

The APC-2000 EEx/AL, APR-2000 EEx/AL and APR-2200EEx/AL Series 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.

Technical parameters:

When derived from a linear supply (resistive output characteristic):

$U_i = 28 \text{ V}$; $I_i = 93 \text{ mA}$; $P_i = 0,65 \text{ W}$; $L_i = 1,18 \text{ mH}$; $C_i = 20 \text{ nF}$

Temperature class T6 for $T_a \leq +40^\circ \text{ C}$, T5 for $T_a \leq +65^\circ \text{ C}$

When derived from a supply with rectangular output characteristic:

$U_i = 24 \text{ V}$; $I_i = 25 \text{ mA}$; $P_i = 0,60 \text{ W}$; $L_i = 1,18 \text{ mH}$; $C_i = 20 \text{ nF}$

Temperature class T6 for $T_a \leq +40^\circ \text{ C}$, T5 for $T_a \leq +80^\circ \text{ C}$

When derived from a supply with trapezoidal characteristic:

$U_i = 24 \text{ V}$; $I_i = 75 \text{ mA}$; $P_i = 0,65 \text{ W}$; $L_i = 1,18 \text{ mH}$; $C_i = 20 \text{ nF}$

Temperature class T6 for $T_a \leq +40^\circ \text{ C}$, T5 for $T_a \leq +65^\circ \text{ C}$

(16) Report No. : 05/0056

(17) Special conditions for safe use:

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

* see above in (15)

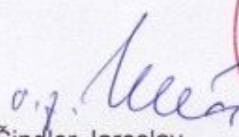
(18) Essential Health and Safety Requirements:

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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(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 05 ATEX 0056X**

(19)

LIST OF DOCUMENTATION

<i>Documents:</i>	<i>Date of FTZÚ verification:</i>
1. User and installation manual, DTR. APC...02 (20 pages)	20.04.2005
2. User and installation manual, DTR. APR...02 (25 pages)	20.04.2005
3. Drawings No.:	
APC2000-A300-00 (2 sheets)	20.04.2005
APC2000-A300-01 (2 sheets)	20.04.2005
APC2000-C301-TA (2 sheets)	20.04.2005
APC2000-S301-00 (5 sheets)	20.04.2005
APC2000-B302-TA (2 sheets)	20.04.2005
APC2000-B303-TA (3 sheets)	20.04.2005
APC2000-B304-TA (3 sheets)	20.04.2005
APC2000-B305-TA (2 sheets)	20.04.2005
APC2000-B307-00	20.04.2005
APR2000-A301-TA (2 sheets)	20.04.2005
APR2000-A302-TA	20.04.2005
APC2000-A303-TA	20.04.2005
APC2000-B308-TA	20.04.2005
APC2000-C302-TA	20.04.2005
APC2000-A301-TA (2 sheets)	20.04.2005
ZA-032-TA	20.04.2005
ZA-038-TA	20.04.2005
ZA-033-TA	20.04.2005
ZG-018-TA (2 sheets)	20.04.2005
ZG-019-TA (2 sheets)	20.04.2005
ZG-002-TA	20.04.2005
ZG-006-TA	20.04.2005
GC1-001-TA (3 sheets)	20.04.2005
GC3-001-TA (3 sheets)	20.04.2005
GC4-001-TA	20.04.2005
GR40-001-TA (2 sheets)	20.04.2005
GR40-002-TA	20.04.2005
GR40-003-TA	20.04.2005
4. Analysis of EN requirements No. AN: APC-2000EEEx/AL.01(9 pages)	20.04.2005

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