



AC 038



KDB ATEX



Główny Instytut Górnictwa
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This certificate and its
schedules may only be
reproduced in its entirety and
without change



[1] SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE

[2] Equipment, protective systems and components intended for use in potentially explosive atmospheres - Directive 94/9/EC

[3] Supplementary EC-Type Examination Certificate:

KDB 08ATEX224X/1

[4] Equipment and protective system:

Smart Pressure Transmitter type APC-2000ALW/XX

**Smart Differential Pressure Transmitter
type APR-2000ALW/XX and APR-2200ALW/XX**

Smart Level Probe type APR-2000YALW/XX

[5] Manufacturer:

APLISENS S. A.

[6] Address:

ul. Morelowa 7, 03-192 Warszawa

[7] This supplementary certificate extends EC-Type Examination Certificate No. KDB 08ATEX224X to apply to equipment or protective systems 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.

This Supplementary Certificate shall be held with the original Certificate.

The examination and test results are recorded in confidential report KDB No. 08.170/1 [T-6339]

[8] Marking:

see point 11

Date of issue: 12.12.2008

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SPECJALISTA ds. CERTYFIKACJI
URZADZEŃ PRZECIWWYBUCHOWYCH

mgr inż. Wojciech Kwiatkowski



KIEROWNIK
Zespołu Certyfikacji WYROBÓW
KD "BARBARA" Mikołów
doc. dr hab. inż. Krzysztof Cybulski

[9]

SCHEDULE

[10] **Supplementary EC-Type Examination Certificate KDB 08ATEX224X/1**

[11] **Description of the variation to the equipment or protective system:**

The APC-... pressure transmitters are intended for the measurement of pressure, underpressure and overpressure of gases, vapors and liquids (with corrosivity abilities also), APR-... transmitters whereas to measure differential pressure, level and density.

Introduced changes concern:

- alternative type of the elastic print;
- new software of microcontrollers U1 and U4;
- the transmitters range of pressure measured:
 - APC-2000ALW: from 0,7kPa ÷ 60MPa to -100kPa ÷ 100MPa;
 - APR-2000ALW: from 4kPa ÷ 2,5MPa to -160kPa ÷ 2,5MPa;
 - APR-2000YALW: from 1,6mH₂O ÷ 10mH₂O to 0mH₂O ÷ 10mH₂O;
- modification of fixing of the terminal plate.

Technical data:

Range of pressure measured	-100kPa ÷ 100MPa - APC-2000ALW; -160kPa ÷ 2,5MPa - APR-2000ALW; 0mH ₂ O ÷ 10mH ₂ O - APR-2000YALW;
Output signal	4 ÷ 20 mA;
Accuracy	0,075 % ÷ 0,5 % in dependence on the measurement range;
Power supply	13,5VDC ÷ 45VDC (nominal 24 VDC);
Ambient temperature range	-40 °C ÷ +45°C/+75°C;
Degree of protection provided by enclosure	IP67

Equipment or protective system should be marked:



II 1/2 G Exia/dIIC T6/T5
II 1/2 D ExiaD 20 /tD A21 T85/T100

Comment:

marking T6 and T85 applies to range -40°C<Ta<+45°C

marking T5 and T100 applies to range -40°C<Ta<+75°C





[9]

SCHEDULE

[10] **Supplementary EC-Type Examination Certificate KDB 08ATEX224X/1**

[12] **Test report:**

Report no. KDB Nr 08.170/1

The relative pressure of 38 [bar] was applied during the overpressure test in conformity with EN 60079-1:2007. It is four times the reference pressure for enclosures not subject to routine overpressure testing.

[13] **Special conditions for safe use:**

- 13.1 As the replacing elements, can be use only those specified in the descriptive documentation;
- 13.2 Permitted gap of spigot joint marked in documentation by L_4 is smaller then specified in EN 60079-1:2007 and it can not exceed values specified in manual instruction.

[14] **Essential health and safety requirements:**

Met by compliance with standards listed below:

EN 60079-0:2006; EN 60079-1:2007;
EN 60079-11:2007; EN 60079-26:2004;
EN 61241-0:2006; EN 61241-1:2004;
EN 61241-11:2006

[15] **Descriptive documents:**

Schedule of changes no. 1 for documentation DT.APC-2000ALW.Exd.01 11.2008

