



AC 038



KDB ATEX



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



[1] **SUPPLEMENT No 1**
to EC-TYPE EXAMINATION CERTIFICATE
KDB 08ATEX282

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

[3] Equipment and protective system:
Smart pressure transmitters type APCE-2000, APC-2000; smart differential pressure transmitters type APRE-2000, APR-2000 and APRE-2200, APR-2200; smart differential pressure transmitters for gases type APRE-2000G, APR-2000G; smart level probes type APRE-2000Y, APR-2000Y


[4] Manufacturer:
APLISENS S.A

[5] Address:
ul. Morelowa 7, 03-192 Warszawa

[6] Changes were introduced to design or construction of component in accordance with the specification set out in the Schedule attached to this certificate and the documents therein referred to.


This document shall be held with the original Certificate.

The examination and test results are recorded in confidential report KDB No. 08.243-1 [T-6388]


[7] Marking:
II 1/2G
 **Ga/Gb Ex ia IIC T4/T5/T6**
I M1, Ex ia I

[8] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2004; (PN-EN 60079-0:2009);
EN 50303:2000; (PN-EN 50303:2004);
EN 60079-26:2007; (PN-EN 60079-26:2007);
EN 60079-11:2007; (PN-EN 60079-11:2007);
EN 61241-0:2006; (PN-EN 61241-0:2007);
EN 61241-11:2006; (PN-EN 61241-11:2007)

[9] The marking will change to:
II 1/2G
 **Ga/Gb Ex ia IIC T4/T5/T6**
I M1, Ex ia I
II 1D, Ex iaD 20 T110°C

SPECJALISTA ds. CERTYFIKACJI
URZĄDZEN PRZECIWWYBUCHOWYCH


mgr inż. Wojciech Kwiatkowski



KIEROWNIK
Zespołu Certyfikacji Wyrobów
KD „BARBARA” Mikołów

doc. dr hab. inż. Krzysztof Cytulski

Date of issue: 16.10.2009
Date of English version: 16.10.2009

[10]

SCHEDULE

[11]

Supplement no 1 to EC-Type Examination Certificate KDB 08ATEX282

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

In the pressure transmitters applied changes described in sheet of changes no.1 (DT.APC-2000Ex06).

Additionally assessed fulfilment of requirements of EN 61241-0 and EN 61241-11.

Technical parameters:

Measurement range	up to 100MPa for APC-2000, APCE-2000 up to 2.5MPa for APR-2000, APR-2200, APRE-2000, APRE-2200 up to 100kPa for APR-2000G, APRE-2000G up to 10mH ₂ O for APR-2000Y, APRE-2000Y
Output signal	4 ÷ 20mA + HART, two-wire transmission
Accuracy	0,075% up to 0,5% (dependent on measurement range)
Ambient temperature limit	-40°C ÷ +80°C
Supply	30V DC - for power supply with a linear characteristic 24V DC - for power supply with a rectangular and trapezoidal characteristic
Degree of protection	IP65 for PD and PZ connectors

Permitted input parameters

- for power supply with a linear characteristic

- $U_i=30V$ DC
- $I_i=0.1A$

- for power supply with a "rectangular" characteristic and a "trapezoidal" characteristic

- $U_i = 24V$ DC
- $I_i = 0,1A$

Input inductance and capacity:

$L_i = 1.3mH$

$C_i = 20nF$

P_i for all type of power supply - see Table 1

Table 1

P_i [W]	$\Delta T [^{\circ}C]$ for P_i	T_p [$^{\circ}C$]	Temperature class
1.2	28.5	51	T6
		66	T5
		80	T4 and Group I
1.0	23.8	56	T6
		71	T5
		80	T4 and Group I



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0.9	21.4	58	T6
		73	T5
		80	T4 and Group I
0.8	19.0	61	T6
		76	T5
		80	T4 and Group I
0.7	16.6	63	T6
		78	T5
		80	T4 and Group I
0.6	14.3	65	T6
		80	T5, T4 and Group I
0.4	9.5	70	T6
		80	T5, T4 and Group I
1.2	28.5	80	for D

T_p - temperature of enclosure of mounted transmitter (for example at tank) without power supply, determined for maximum ambient temperature.

[13] Special conditions for safe use:

-see original certificate

