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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

Product certification program
no: PCW-ISO/IEC-1b
CODE ICS 13.230

[1] EC-TYPE EXAMINATION CERTIFICATE



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

[3] EC – type examination certificate:

KDB 10ATEX122X

[4] Equipment or protective system:

**Temperature transmitter type APT 2000ALW
Exd version**

[5] Manufacturer:

APLISENS S.A

[6] Address:

ul. Morelowa 7, 03-192 Warszawa

[7] This equipment and any acceptable variation thereto is specified in the schedule to this
certificate and the documents therein referred to.

[8] Główny Instytut Górnictwa, Notified Body number 1453 in accordance with Article 9 of
Directive 94/9/EC of 23 March 1994, certifies that this equipment and 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
KDB No. 10.170 [T-6664]

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

EN 60079-0:2006; EN 60079-1:2007;

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

EN 61241:2006; EN 61241-1:2004;

EN 61241-11:2006

[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 and construction of the
specified equipment and protective system in accordance with Directive 94/9/EC.
Further requirements of the Directive may 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 the following:



II 1/2G, Ex d/ia IIC T*

II 1/2D, Ex iaD 20/tD A21 T*

-40°C ≤ Ta ≤ +45°C / +75°C

SPECJALISTA ds. CERTYFIKACJI
URZĄDZEŃ PRZECIWWYBUCHOWYCH

mgr inż. Wojciech Kwiatkowski



KIEROWNIK
Zespołu Certyfikacji Wyrobów
KD „BARBARA” Mikołów
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SCHEDULE

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EC-Type Examination Certificate KDB 10ATEX122X**[15] Description:**

Transmitters APT 2000ALW are designed to measure temperatures in industrial installations. Transmitter housing is a flameproof enclosure AL164 of Aplisens production equipped with flame-proof cable gland and blind plug specified in the agreed documentation. Inside the enclosure is mounted electronics with galvanically separated intrinsically safe sensor circuit of level of protection ia.

Technical parameters:

Power Supply	13.5÷45V DC	
Measuring range	-200°C÷+550°C	for sensor Pt 100
	-40°C÷+550°C	for sensor Ni-Cr-Ni/K
Degree of protection of enclosure	IP67/66	
Output signal	4÷20mA	

 $U_m = 45V DC$ **[16] Test report:**

Report no. KDB Nr 10.170

Report no. KDB Nr 08.170

The overpressure test in conformity with EN 60079-1:2004+AC:2006 made pressure 38 [bar] (4-times the reference pressure) - enclosure not subjected to overpressure test in routine test.

[17] Special conditions for safe use:

17.1 Temperature class transmitter (T * for gas) or the maximum surface temperature (T * for dust) depends mainly on the process temperature (temperature-controlled medium) and methods of installation on site. Accordingly, the temperature T_p the most hot place on the surface of the transducer housing (virtually cover the sensor) having contact with the explosive atmosphere in conditions of installation on site be determined and follow the instructions in DTR.APT.ALW.02.

17.2 Permitted gap of flameproof cylindrical joint marked in the documentation by L4 is less than specified in EN 60079-1:2007 and shall not exceed the values specified in the manufacturer's instructions.

SCHEDULE

EC-Type Examination Certificate KDB 10ATEX122X

[18] Essential health and safety requirements:

Met by compliance with standards listed below:

EN 60079-0:2006	(PN-EN 60079-0:2009);
EN 60079-1:2007	(PN-EN 60079-1:2010);
EN 60079-11:2007	(PN-EN 60079-11 :2010);
EN 60079-26:2004	(PN-EN 60079-26 :2005);
EN 61241:2006	(PN-EN 61241-0 :2007);
EN 61241-1:2004	(PN-EN 61241-1 :2005);
EN 61241-11:2006	(PN-EN 61241-11 :2007)

