



AC 038



KDB ATEX



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Product Certification Team  
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This certificate and its  
schedules may only be  
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without change



# SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE

- [1] Equipment, protective systems and components intended for use in potentially explosive atmospheres - Directive 94/9/EC
- [2] Supplementary EC-Type Examination Certificate:

**KDB 05ATEX252X/2**

- [3] Equipment and protective system:  
**Pressure Transmitter type APC-2000 EExd/XX**
- [4] Manufacturer:  
**APLISENS - Production of Pressure Transmitters  
and Devices for Measurement Sp. z o. o.**

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

- [6] This supplementary certificate extends EC-Type Examination Certificate No. KDB 05ATEX252X 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 number KDB No. 07.146 [T-5478]

- [7] Marking:  
 **II 1/2G**  
**Ex d IIC T5**

Date of issue: 23.07.2007

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**KIEROWNIK**  
Zespołu Certyfikacji Wzrobów  
KD „BARBARA” Mikołów  
doc. dr hab. inż. Krzysztof Cybulski



**GŁÓWNY INSTYTUT GÓRNICICTWA**  
**KIEROWNIK**  
Jednostki Certyfikującej  
dr inż. Dariusz Stęfaniak



[9]

## SCHEDULE

[10] **Supplementary EC-Type Examination Certificate KDB 05ATEX252X/2**

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

The APC-2000 EExd/XX flameproof enclosure construction was readjusted to EN 60079-0:2004 and EN 60079-1:2004+AC:2006 requirements, and assessment was done again. New variation of pressure transmitters is marked: APC-2000Exd/XX.

The APC-2000 EExd/XX pressure transmitters are intended for the measurement of pressure, underpressure and overpressure of gases, vapors and liquids (with corrosivity abilities also).

The pressure transmitters can be fitted with special process connections and diaphragm seals if required (e.g. for aggressive and dense medium, high and low temperature). Fitting accessories and diaphragm seals are described in manufacturer catalogue.

Construction of the device is based on application of one standardized type of protection ('d') in combination with a flameproof joint and a separation element. As the separation element was used a partition wall made from stainless steel with thickness smaller than 0,2mm. The APC-2000 EExd/XX pressure transmitters are fitted with an Aplisens flameproof enclosure. The flameproof cable glands and closing devices types are listed in the descriptive document (APC2000-C332-01).

### Technical data:

Measurement range	100 kPa ÷ 40 MPa;
Output signal	4 ÷ 20 mA;
Accuracy	0,075 % ÷ 0,5 % in dependence on the measurement range;
Power supply	do 38 VDC (nominal 24 VDC);
Ambient temperature range	-40 °C ÷ +80 °C
Degree of protection provided by enclosure	IP65

### Marking:

Equipment should be marked:

**KDB 05ATEX252X**

**II 1/2G**

**Ex d IIC T5**





[9]

**SCHEDULE**

[10] **Supplementary EC-Type Examination Certificate KDB 05ATEX252X/2**

[12] **Test report:**

Report no. KDB No. 07.146

The relative pressure of 38 [bar] was applied during the overpressure test in conformity with 15.1.3.1 of EN 60079-1:2004+AC:2006. It is four times the reference pressure for enclosures not subject to routine overpressure testing.

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

The maximum constructional gap of cylindrical joints marked L<sub>3</sub> and L<sub>4</sub> is less than specified in EN 60079-1:2004+AC:2006 and shall not exceed values specified in manual.

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

Essential health and safety requirements are met by compliance with following standards:

EN 60079-0:2006; EN 60079-1:2004+AC:2006;  
 EN 60079-26:2004



[15] **Descriptive documents:**

Technical documentation with following drawings:	DT.APC2000 Exd/XX	06.2007
Fig. 'Pressure transmitter APC-2000 Exd/XX flameproof performance'	APC2000-A301-TA sheets 1B, 2B	08.2005
Fig. 'Pressure transmitter APC-2000 Exd/XX dimensions of flameproof joints'	APC2000-A301-Z sheets 1, 2	06.2007
Fig. 'Pressure transmitter APC-2000 Exd/XX with diaphragm seals'	APC2000-A311-TA	06.2007
Fig. 'APC-2000 Exd/XX schematic diagram of connection board MPC2-FO rev2'	APC2000-S301-10	06.2007
Fig. 'Connection board set MPC2-FO rev2'	APC2000-B312-TA sheets 1,2	08.2005
Fig. 'List of interchanging cable glands and stopping plugs with flameproof marking Exd IIC'	APC2000-C332-01	06.2007
Fig. 'Pressure head with bushing set Ø15 flameproof performance'	ZG-018-TA sheets 1C, 2C	04.2005
Fig. 'Pressure head with bushing set flameproof performance'	ZG-024-TA sheets 1,2	04.2005
Fig. 'Head - medium, high, absolute pressure, flameproof performance'	GC4-001-TA sheets 1A, 2A	04.2005
Fig. 'Head - medium, high, absolute pressure, flameproof performance'	GC3-008-TA sheets 1, 2	06.2006
Fig. 'Socket'	G-193-00	03.2005

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## SCHEDULE

[10]

### Supplementary EC-Type Examination Certificate KDB 05ATEX252X/2

Fig. 'Pin'	G-194-00	06.2006
Fig. 'Wire-drawing end'	G-074-00	21.04.2005
Fig. 'Diaphragm Ø15'	G-181-00-EE	21.04.2005
Fig. 'Head connector'	A-184-TA	11.2004
Fig. 'Intermediate bard set'	ZA-038-TA	12.2004
Fig. 'Connector'	G-184-00	21.04.2005
Fig. 'Case'	G-206-00	03.2005
Fig. 'Socket'	G-042-00	21.04.2005
Fig. 'Diaphragm Ø25'	G-059-00-EE	21.04.2005
Fig. 'Enclosure'	A-164-TA sheets 1, 7, 8	06.2007
Fig. 'Enclosure'	A-164-TA sheets 2÷6, 9	02.2004
Fig. 'Cover set'	ZA-026-TA	02.2004
Fig. 'Cover set with glass window'	ZA-027-TA	06.2007
Fig. 'Cover'	A-168-00	06.2007
Fig. 'Cover - cemented windowpane'	A-169-01	06.2007
Fig. 'Windowpane'	A-188-00	02.2004
Fig. 'Bushing of enclosure'	ZA-024-TA	06.2007
Fig. 'Bush of bushing'	A-170-00	03.2003
Fig. 'Plate of bushing'	A-173-00	03.2003
Fig. 'Ring'	A-171-00	03.2003
Fig. 'Closing device 1/2NPT'	A-195-00	02.2004
Fig. 'Closing device M20x1,5'	A-194-00	02.2004
Fig. 'Connector G1/2 P'	G-212-00	06.2006
Fig. 'Label'	A-197-00	02.2004

