



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx KDB 14.0002X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2014-08-14

Applicant: **APLISENS S.A.**  
ul. Morelowa 7, 03-192 Warszawa  
**Poland**

Equipment: **Temperature Transmitter type APT-2000ALW Exd version**

Optional accessory:

Type of Protection: **Flameproof enclosure "d", Dust protection by enclosure "t", Intrinsic safety "i"**

Marking: version with steel enclosure:  
Ex d ia I Mb  
Ex ia/d IIC T\* Ga/Gb  
Ex ia/t III C T\* Da/Db  
version with aluminium alloy enclosure:  
Ex ia/d IIC T\* Ga/Gb  
Ex ia/t III C T\* Da/Db

Approved for issue on behalf of the IECEx  
Certification Body:

**dr inż. Michał Górny**

Position:

**Head of ExCB**

Signature:  
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Główny Instytut Górnictwa, Kopalnia Doświadczalna "BARBARA"**  
**(Central Mining Institute Experimental Mine "Barbara")**  
**ul. Podleska 72**  
**43-190 Mikołów**  
**Poland**





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Manufacturer: **APLISENS S.A.**  
ul. Morelowa 7, 03-192 Warszawa  
**Poland**

Additional  
manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2007-10** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:5

**IEC 60079-1:2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:6

**IEC 60079-11:2006** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:5

**IEC 60079-26:2006** Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga  
Edition:2

**IEC 60079-31:2008** Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'  
Edition:1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[PL/KDB/ExTR14.0002/00](#)

Quality Assessment Reports:

[PL/KDB/QAR12.0001/00](#)

[PL/KDB/QAR12.0001/01](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

Temperature Transmitter type APT-2000ALW is designed to measure temperatures in industrial installations. The transmitter consists of a housing, sensing probe with process connection, measuring sensor and electronic module converting the signal from measuring sensor into unified amplified output signal. The transmitter housing is a flameproof enclosure made of aluminium alloy with a baked epoxy paint finish or steel (316). The housing consists of a main enclosure, two electrical threaded entries and two screwed access covers (one of which is equipped with a glass window). Inside the enclosure is mounted electronics with galvanically separated intrinsically safe sensor circuit with a level of protection ia.

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- 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 Tp of the hottest place on the transmitter housing surface (which is actually the cover of the sensor), which has the contact with the explosive atmosphere in conditions of installation on site, has to be determined and one should follow the current instruction.
- Some of the permitted gaps in flameproof joints are smaller than the one specified in IEC 60079-1:2006 (ed. 6) and shall not exceed the values specified in the manufacturer's instructions.