IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx KDB 14.0002X	Issue No: 0	Certificate history: Issue No. 0 (2014-08-14)
Status:	**Current**	Page 1 of 3	
Date of Issue:	**2014-08-14**		

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

Electrical Apparatus: **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 IIIC T* Da/Db
version with aluminium alloy enclosure:
Ex ia/d IIC T* Ga/Gb
Ex ia/t IIIC 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 the Official IECEx Website.

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 location(s):		

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 electrical apparatus 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 Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2006 Edition:5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2006 Edition:2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
IEC 60079-31 : 2008 Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*This Certificate **does not** indicate compliance with electrical 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 Report:

PL/KDB/QAR12.0001/00 PL/KDB/QAR12.0001/01

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Schedule

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.

CONDITIONS OF CERTIFICATION: 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.