



# 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 FTZU 25.0022X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2025-11-28

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

Equipment: **Temperature sensor type CT...**

Optional accessory:

Type of Protection: **Flameproof enclosure "d"; Dust protection "t"**

Marking: Ex db IIB+H<sub>2</sub> T\*\* Ga/Gb or  
Ex db IIB+H<sub>2</sub> T\*\* Gb  
Ex tb IIIC T<sub>200</sub> °C Da/Db or  
Ex tb IIIC T\*\*C Db  
Ex db I Mb – (version with 1.4401 (316) steel housing)

Approved for issue on behalf of the IECEx  
Certification Body:

**Dipl. Ing. Lukáš Martinák**

Position:

**Head of the Certification Body**

Signature:  
(for printed version)

Date:  
(for printed version)

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:

**Fyzikálne technický zkušební ústav  
(Physical -Technical Testing Institute)  
Pikartská 7, 71607 Ostrava - Radvanice  
Czech Republic**





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

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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-26:2021](#) Explosive atmospheres - Part 26: Equipment with Separation Elements or combined Levels of Protection  
Edition:4.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:3.0

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:

[CZ/FTZU/ExTR25.0022/00](#)

Quality Assessment Report:

[PL/KDB/QAR12.0001/07](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Temperature sensor CT... consist of measuring insert, which on the one end contains sensing resistors or thermocouples. The second end of the measuring insert is provided with terminal block or transmitter protected by connection head with Ex- protection Ex d for gas and Ex- protection Ex tb for dust. Aluminium and stainless steel head consists of cover with thread M72x1,5 and body with thread hole M20x1,5 or 1/2 NPT for Ex cable gland.

Opening d2 in the connection head body along with bush on the measuring insert creates flameproof joint.  
To the opening D2 is screw-on thermowell with proper wall thickness (minimum 1mm) made of corrosion resistant steel.

### Electrical parameters:

The maximum measuring current of thermometric resistors:

- a) thin-film: Pt100 - 1 mA; Pt500 - 0.7 mA; Pt1000 - 0.3 mA
- b) Wire – wound resistor: 5 mA

The current load of thermometric resistors Pt100, Pt500, Pt1000 or thermocouples - max. 10 mA

### Maximum rated transmitter parameters:

Rated voltage: 7.5 V ÷ 36 V DC

Rated current signal with HART: 4 ÷ 20 mA

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

1. Ambient temperature range for head and cable gland for T6:  $-50\text{ °C} \leq T_a \leq +70\text{ °C}$ .
2. The temperature class (T\*\* for gas) or maximum surface temperature (T\* for dust) depends primarily on the process temperature Tp (medium temperature) and the installation method on the facility. Therefore, the temperature Tp of the hottest spot on the housing surface (typically the sensor sheath) that is in contact with the explosive atmosphere under installation conditions on the facility should be determined and followed in accordance with the user manual.

Ambient Temperature $T_a$	Temperature class T** for gas	Maximum surface temperature T* for dust	Maximum temperature of medium Tp
$-50\text{ °C} \leq T_a \leq 70\text{ °C}$	T6	85 °C	75 °C
$-50\text{ °C} \leq T_a \leq 80\text{ °C}$	T5	100 °C	90 °C
	T4	135 °C	125 °C
	T3	200 °C	190 °C
	T2	300 °C	285 °C
	T1	450 °C	435 °C

3. Flameproof joints are not intended to be repaired. To obtain information about joints dimension it is necessary to contact the manufacturer.
4. Use only certified Ex db / Ex tb cable glands suitable for the operating conditions.
5. It must be kept IP degrees of sensor connection to the vessel wall minimum IP 67.
6. The lacquer-coated temperature sensor head must be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.