



# 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 20.0022X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-12-31

Applicant: **DEGA CZ s.r.o.**  
Malešická 2850/22c  
Prague 3 130 00  
Czech Republic

Equipment: **Gas detector type NSx-yL II, NSx-yL II LCD, NSx-yL II LCD RE, NSx-PID II, NSx-PID II LCD, NSx-PID II LCD RE**

Optional accessory:

Type of Protection: **flameproof enclosure "d", increased safety "e", type of protection "n", intrinsic safety "i"**

Marking: Ex db ec IIC T4 Gc - NSx-IL II  
Ex db ec IIC T5 Gc - NSx-CL II  
Ex ec IIC T5 Gc - NSx-EL II  
Ex ec nC IIC T5 Gc - NSx-EL II LCD, NSx-EL II LCD RE  
Ex db ec nC IIC T4 Gc - NSx-IL II LCD, NSx-IL II LCD RE  
Ex db ec nC IIC T5 Gc - NSx-CL II LCD, NSx-CL II LCD RE  
Ex ic ec nC IIC T4 Gc - NSx-PID II, NSx-PID II LCD, NSx-PID II LCD RE

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:

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





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Manufacturer: **DEGA CZ s.r.o.**  
Malešická 2850/22c  
Prague 3 130 00  
**Czech Republic**

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 60079-0:2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

**IEC 60079-15:2010** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:4

**IEC 60079-7:2015** Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

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/ExTR20.0022/00](#)

Quality Assessment Report:

[CZ/FTZU/QAR20.0005/00](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The gas detectors type NSx-yL II, NSx-yL II LCD and NSx-yL II LCD RE consists of cover and enclosure bottom, made by plastic material. Cover of detector type NSx-yL II LCD and NSx-yL II LCD RE is equipped with plastic sight glass. Enclosure is equipped with electronic circuits. Equipment is protected by type of protection "ec". Relays of detector type NSx-yL II LCD are protected by type of protection "nC". The Inside of the enclosure is installed sensor head. Sensor head of detector type NSx-CL II and NSx-IL II is protected by type of protection "d". Sensor head of detector type NSx-EL II is protected by type of protection "ec". Sensor head of detector type NSx-IL II is separately certify as component, certificate IECEx SIR 05.0053U.

The gas detectors type NSx-PID II, NSx-PID II LCD, NSx-PID II LCD RE consists of cover and enclosure botom made by plastic material. The Cover of detector type NSx-PID II LCD and NSx-PID II LCD RE is equiped with plastic sight glass. Inside of the enclosure are installed electronic circuits. Equipment is protected by type of protection „ec“. Relays of detectors type NSx-PID II LCD and NSx-PID II LCD RE are protected by type of protection „nC“. Inside of the enclosure is installed sensor head. Sensor head of detectors type NSx-PID II, NSx-PID II LCD, NSx-PID II LCD RE is protected by type of protection „ic“. Sensor head of detectors type NSx-PID II, NSx-PID II LCD, NSx-PID II LCD RE is separately certified as component IECEx BAS 07.0030U.

Enclosure is equipped with two M20x1.5 threaded holes for installation of appropriate certified Ex equipment cable glands.

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

1. The equipments have to be installed by sensing part down.
2. The detectors type NSx-yL II LCD, NSx-yL II LCD RE and NSx-PID II LCD, NSx-PID II LCD RE were submitted to resistance to impact tests corresponding to low risk of mechanical danger.
3. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
4. Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.