CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 11ATEX0257 X** Issue Number: 3

(4) Product: **Gas Transmitter**
Type GTR 210 EX and Type GTR 210 EX MED

(5) Manufacturer: **ADOS GmbH**

(6) Address: **Trierer Strasse 23-25, 52078 Aachen, Germany**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential test report number NL/DEK/ExTR11.0106/03.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2012 + A11	**EN 60079-1 : 2014**	**EN 60079-7 : 2007**
EN 60079-11 : 2012	**EN 60079-18 : 2009**	**EN 60079-31 : 2014**

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

II 2 G Ex db e ia mb IIC T4 Gb
II 2 D Ex tb IIIC T135 °C Db

Date of certification: 2 October 2019

DEKRA Certification B.V.

L.G. van Schie
Certification Manager

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T +31 88 96 83000 F +31 88 96 83100 www.dekra-product-safety.com Registered Arnhem 09085396

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 11ATEX0257 X** Issue No. **3**

(15) **Description**

The gas transmitters Type GTR 210 EX and Type GTR 210 EX MED are used for measuring combustible gases and vapours in air under atmospheric conditions. The measurement values and status of the gas transmitter can be read on the incorporated display.

The transmitters consist of a sensor head, including a breathing device of sintered metal, in type of protection flameproof enclosures “d”. The sensor head is mounted to an electronics enclosure which is in type of protection: protection by increased safety “e”. The electronics in this enclosure are in types of protection: protection by encapsulation “m” and by intrinsic safety "ia".
The total equipment is in type of protection: dust ignition protection by enclosure “t”.

The transmitters provide a degree of protection of IP64 per EN 60079-0 and EN 60529 and IP66/IP67 per EN 60529.

Ambient temperature range -25 ˚C to +60 ˚C.

Electrical data

Power supply: 24 VDC, 200 mA
Output signal: 4 - 20 mA
Sensor: 9,7 W max.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/DEK/ExTR11.0106/03.

(17) **Specific conditions of use**

Maximum allowed prospective short circuit current of the supply: 1500 A

The flameproof joints are not intended to be repaired.

Potential electrostatic charging hazard, electrostatic charging of the non-metal parts shall be avoided. Take care during installation, use, maintenance and cleaning.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR11.0106/03.

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 11ATEX0257 X** Issue No. **3**

(20) **Certificate history**

Issue 1 -	214051100	Initial certificate
Issue 2 -	216202800	Increase of upper ambient temperature Addition of ingress protection IP66 Minor constructional changes
Issue 3 -	221776400	Addition of transmitter type GTR 210 EX MED, Addition of EMC filter and brush, Assessment against the latest edition of standard IEC 60079-1, Assessment against the latest edition of standard IEC 60079-31, Assessment against IEC 60529 for classes IP66 and IP67, Provided cable gland changed.

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

Certificate No.: **IECEx DEK 11.0090X**

Page 1 of 4

Certificate history:
Issue 1 (2013-09-11)
Issue 0 (2012-05-21)

Status: **Current**

Issue No: 2

Date of Issue: 2019-10-02

Applicant: **ADOS GmbH**
Trierer Strasse 23-25
D-52078
Aachen
Germany

Equipment: **Gastransmitter type GTR 210 EX and type GTR 210 EX MED**

Optional accessory:

Type of Protection: **Ex db e ia mb and Ex tb**

Marking: Ex db e ia mb IIC T4 Gb and
Ex tb T135 °C Db

Approved for issue on behalf of the IECEx Certification Body: **Certification Manager**

Position: **L.G. van Schie**

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 or use of this QR Code.

Certificate issued by:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
Netherlands

IECEx Certificate of Conformity

Certificate No.: **IECEx DEK 11.0090X**

Date of issue: 2019-10-02

Issue No: 2

Manufacturer: **ADOS GmbH**
Trierer Strasse 23-25
D-52078
Aachen
Germany

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 60079-18:2009 Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
Edition:3

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:4

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:

NL/DEK/ExTR11.0106/03

Quality Assessment Report:

DE/TUR/QAR11.0007/03

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The gas transmittesr Type GTR 210 EX and Type GTR 210 EX MED are used for measuring combustible gases and vapours in air and under atmospheric conditions. The measurement values and status of the gas transmitter can be read on the display.

The transmitters consist of a sensor head, including a breathing device of sintered metal, in type of protection flameproof enclosure “d”. The sensor head is mounted to an electronics enclosure which is in type of protection: protection by increased safety "e". The electronics in this enclosure are in types of protection: protection by encapsulation "m" and by intrinsic safety "ia".
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The transmitters provide a degree of protection of IP64 per IEC 60079-0 and IEC 60529 and IP66/IP67 per IEC 60529.

Ambient temperature range -25 ˚C to +60 ˚C.

Electrical data

Power supply: 24 VDC, 200 mA,
Output signal : 4 - 20 mA,
Sensor : 9.7 W max.

SPECIFIC CONDITIONS OF USE: YES as shown below:
Maximum allowed prospective short circuit current of the supply: 1500 A

The flameproof joints are not intended to be repaired.

Potential electrostatic charging hazard, electrostatic charging of the non-metallic parts shall be avoided. Take care during installation, use, maintenance and cleaning.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. Addition of a transmitter type GTR 210 EX MED,
2. Addition of EMC filter and brush,
3. Assessment against edition 7 of standard IEC 60079-1,
4. Assessment against edition 2 of standard IEC 60079-31,
5. Assessment against IEC 60529 for IP66 and IP67,
6. Provided cable gland changed.