

# CERTIFICATE

## (1) EC-Type Examination

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: **KEMA 03ATEX2403 X** Issue Number: **3**

(4) Equipment: **Gas Transmitter Type GTR 196**

(5) Manufacturer: **ADOS GmbH**

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

(7) This equipment 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 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems 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 203163500, issue 4.

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

**EN 60079-0 : 2006**  
**EN 60079-11 : 2007**

**EN 60079-1 : 2007**  
**EN 60079-18 : 2004**

**EN 60079-7 : 2007**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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



**II 2 G Ex d e mb [ia] IIC T6**

This certificate is issued on 20 October 2015 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.

R. Schuller  
Certification Manager

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 04ATEX2403 X**

Issue No. 3

(15) **Description**

The gas transmitter Type GTR 196 is used for measuring combustible gases and vapours in air and under atmospheric conditions. The measurement signal is available at test sockets that are accessible, together with other adjustment devices, behind a movable front plate.

A sensor head in type of protection flameproof enclosure "d" is incorporated in the measuring instrument housing in types of protection encapsulation "mb and increased safety "e". The adjustment devices behind the front plate are in type of protection intrinsic safety "ia".

Ambient temperature range -20 °C to +45 °C.

The sensor head incorporates a breathing device of sintered metal.

**Electrical data**

Power supply : 12 - 30 Vdc, 200 mA  
Um = 250 Vac

Output signal : 4 - 20 mA  
Um = 250 Vac

Sensor : 30 V, 6 W max.

Test socket circuit: in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with the following maximum values:  $U_o = 38,3 \text{ V}$ ;  $I_o = 4,2 \text{ mA}$ ;  $P_o = 40 \text{ mW}$ ;  $C_o = 35 \text{ nF}$ ;  $L_o = 50 \text{ mH}$ .

**Installation instructions**

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

**Routine tests**

Each gas transmitter shall be tested in accordance with EN 60079-7, clause 7.1, with a test voltage of 500 V during 1 minute.

Each gas transmitter shall be tested in accordance with EN 60079-18, clause 9:

- 9.1 Visual inspection
- 9.2 Dielectric strength test

(16) **Test Report**

No. 203163500, issue 4.

(17) **Special conditions for safe use**

The front plate may only be opened temporarily for the connection of a certified measuring instrument to the test sockets and/or for adjustments.

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

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 04ATEX2403 X**

Issue No. **3**

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 203163500, issue 4.