



(1) **EU-Type Examination Certificate**

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

(3) **Certificate Number** TÜV 16 ATEX 176482 X **issue:** 01

(4) for the product: Gas Detector types GJ-EX and GJ-OX

(5) of the manufacturer: **Geopal System A/S**

(6) Address: Skelstedet 10B
2950 Vedbaek, Denmark

Order number: 8000482715

Date of issue: 2019-01-11

(7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.

(8) The TÜV NORD CERT GmbH, Notified Body No. 0044, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 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 the confidential ATEX Assessment Report No. 18 203 218761.

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

EN 60079-0:2018

EN 60079-1:2014

except in respect of those requirements listed at item 18 of the schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions for 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 equipment. These are not covered by this certificate.

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



**II 2 G Ex db IIC T6 Gb or
II 2 G Ex db IIC T5 Gb**

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body



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(13) **SCHEDULE**

(14) **EU-Type Examination Certificate No. TÜV 16 ATEX 176482 X issue: 01**

(15) Description of product

Description

Gas detector types GJ-EX and GJ-OX are designed in type of protection flameproof enclosure “d”, with permanently connected wires. The flameproof enclosure provides a sinter metal element to allow eventual gas to reach the sensor element, placed inside the flameproof enclosure. Enclosure is made of stainless steel.

GJ-OX is designed with extension AD03100 and adapter AD03110 in order to provide space for the slightly larger sensor.

The detectors can be mounted into various adaptors for optimal position and in order to keep junction boxes within their respective temperature ratings.

Description of change

Update to the current versions of the standards.

Minor constructional modifications.

Type key

GJ-OX is intended for detection of oxygen concentrations in air with normal oxygen content, typically 21 % v/v.

GJ-EX is intended for detection of methane, propane, butane, hydrogen, hexane and several other gases.

Technical data (max. values)

Supply circuit GJ-EX: $U_{max} = 7 \text{ V}$
 $I_{max} = 300 \text{ mA}$

Supply circuit GJ-OX: $U_{max} = 200 \text{ mV}$
 $I_{max} = 0.003 \text{ mA}$

Permissible range of ambient temperature

Gas Detector model	Ambient temperature range	Temperature class
GJ-OX	-20 °C to +65 °C	T6
GJ-EX	-20 °C to +80 °C	T5

(16) Drawings and documents are listed in the ATEX Assessment Report No. 18 203 218761

(17) Specific Conditions for Use

1. The sensors are provided with fixed mounted wires which have to be terminated in the provided terminal compartment of EPL “Gb”.
2. The gaps of the flameproof joints are in parts smaller than the values, which are required in clause 5 of EN 60079-1 ed. 7. For information of the dimensions of the flameproof joints, contact the manufacturer.
3. Fasteners with a property class of at A2-80 (stainless steel) have to be used for all parts of the flameproof enclosure.

(18) Essential Health and Safety Requirements

no additional ones

- End of Certificate -