

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00006EV
Revision no.:
1

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

that the **Fixed oxygen analysis and/or gas detection equipment:- category 3: (explosive gas atmospheres)**

with type designation(s)
GTR 210 EX MED

issued to

Ados GmbH
Aachen, Germany

is found to comply with the Implementing Regulation (EU) 2024/1975 for
Item no. **MED/3.54b** (Row **4 of 4**)

according to the following requirements:

**SOLAS 74 Reg. II-2/4, SOLAS 74 Reg. VI/3, IMO Res. MSC.98(73)-(FSS Code) 15For combined O2/HC systems
additionally: IMO MSC.1/Circ.1370, SOLAS 74 Reg. VI/3**

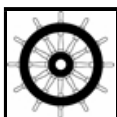
Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2025-09-03**

Expiry date: **2030-09-02**

DNV local unit:
Essen

Approval Engineer:
Dariusz Lesniewski



Notified Body
no.: **0098**

for **DNV SE**

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Christine Mydlak-Röder
Head of Notified Body

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

Gas transmitters type GTR 210 EX MED are used for measuring of combustible gases and vapours or oxygen.

Type	Measuring range	Gas
GTR 210 EX MED VQ (Pellistor)	0...100%LEL	alkanes (methane to hexane), hydrogen, ethanol
GTR 210 EX MED IR (infrared)	0...100% LEL	methane, propane
GTR 210 EX MED TOX (electro-chemical)	0...25Vol%	O2

Power supply: 24V DC

Output: 4...20mA

Display: graphical LC-display, background red/green/yellow, LED Power/Fault/MainFailure/Inhibit

Operating keys

Degree of protection: IP66/IP67

Software version: V3.10

Application/Limitation

-

Type Examination documentation

Tests carried out

IEC 60092-504:2016

IEC 60533:2015

EN 50104:2010

EN 60079-0:2012 incl. A11:2013

EN 60079-29-1:2016

*IMO MSC.1/Circ.1370 (not applicable)

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings



TYPE APPROVAL CERTIFICATE

Certificate no.:
TAA00002JG
Revision No:
1

This is to certify:
that the Gas Transmitter

with type designation(s)
GTR 210 EX MED, GTR 210 MED

issued to
Ados GmbH
Aachen, Germany

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Location classes:
Temperature C, D*
Humidity B
Vibration A
EMC B
Enclosure C

Issued at **Hamburg** on **2025-10-08**

This Certificate is valid until **2030-10-07**.

for **DNV**

DNV local unit: **Essen**

Approval Engineer: **Dariusz Lesniewski**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Product description

Gas transmitters type GTR 210 (EX) MED are used for measuring of combustible or toxic gases and vapours or oxygen.

Models:

Type	Measuring range	Gas
GTR 210 EX MED VQ (Pellistor)	0...100%LEL	alkanes (methane to hexane), hydrogen, ethanol
GTR 210 EX MED IR (infrared)	0...100%LEL	methane, propane
GTR 210 EX MED TOX (electro-chemical)	0...25Vol%	O ₂
GTR 210 EX MED IR (infrared)	0...5000ppm	CO ₂
GTR 210 EX MED TOX (electro-chemical)	0...50ppm H ₂ S	H ₂ S
GTR 210 MED IR (infrared, no EX)	0...2000ppm	R134a

Power supply: 24V DC

Output: 4...20mA

Display: graphical LC-display, background red/green/yellow, LED Power/Fault/MainFailure/Inhibit

Operating keys

Degree of protection: IP66/IP67

Software version: V3.10

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Application/Limitation

*Location class 'Temperature' reduced to 'C' for detector with range 0...50 ppm H₂S

Type Approval documentation

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021.

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate



Job ID: **262.1-025039-3**
Certificate no.: **TAA00002JG**
Revision No: **1**

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE

QS - CERTIFICATE OF ASSESSMENT – EC (MODULE E)

Certificate no.:
MEDE0000022
Revision no.:
1

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

that the **Quality System for the products**

with type designation(s) as specified in the Appendix to this Certificate

issued to

Ados GmbH
Aachen, Germany

is found to comply with the applicable requirements.

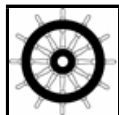
The quality system has been assessed with respect to the procedure of conformity assessment described in Annex II, Module E in the directive 2014/90/EU and regulation (EU) 2025/1533.

Date of issue: **2025-10-01**

Expiry date: **2030-09-30**

DNV local unit:
Essen

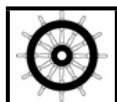
Approval Engineer:
Dariusz Lesniewski



Notified Body
no.: **0098**

for **DNV SE**

Christine Mydlak-Röder
Head of Notified Body



0098/yyyy

0098: Notified Body number undertaking quality surveillance
yyyy: The year in which the mark is affixed

The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate authorizes the manufacturer in conjunction with the valid EC Type Examination (Module B) Certificate(s) of the equipment listed before to affix the Mark of Conformity (wheelmark) to the product described herein.

This certificate loses its validity if the manufacturer makes any changes to the approved quality system which have not been notified to and agreed with the notified body named on this certificate. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

The Manufacturer has to apply for periodical audits to verify the maintenance and application of the quality system every 12 months.

The reference to Module B certificate(s) relate to the revision of the certificate valid at the time of issue of this Module D/E certificate. This module D/E certificate is valid for later revisions of the referenced DNV Module B certificate(s) until their expiration date or within the validity dates of this Module D/E certificate, whichever is less. A new Module B certificate will be required when a modification of a product covered by a Module B certificate is of such extent that a new conformity assessment is required by Directive 2014/90/EU. For Non-DNV Module B certificates, only the revision stated in this Module D/E certificate is regarded valid.

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Certificate no.: **MEDE0000022**
Revision no.: **1**

**Item no. MED/3.54b Fixed oxygen analysis and/or gas detection equipment:- category 3:
(explosive gas atmospheres)**

Type designation	EC Type- Examination Certificate no.	Expiry date	Notified Body no.	USCG approval number	Prod. site(s)
FlexADOS 914 MED	MEDB00006DG	2030-09-02	0098	N/A	1
GTR 210 EX MED	MEDB00006EV	2030-09-02	0098	N/A	1

Places of production

1 Ados GmbH, Trierer Str. 23-25, Aachen, 52078, Germany