

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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

This is to certify:

That the Fixed oxygen analysis and gas detection equipment

with type designation(s)

Automatic Gas Detection System Regard 7000

Issued to

**Dräger Safety AG & Co. KGaA
Lübeck, Germany**

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2017/306,**

item No. MED/3.54. SOLAS 74 as amended, Regulation II-2/4 & VI/3 and FSS Code 15

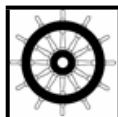
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-04-19**.

Issued at **Hamburg** on **2018-04-20**

DNV GL local station:
Hamburg

Approval Engineer:
Dariusz Lesniewski



Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudzus
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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Product description

Scalable gas monitoring and alarm system REGARD 7000

In connection with 4-20 mA gas transmitters the system is suitable for measurement of flammable gases, oxygen.

The system may consist of the following components:

System component:	Software-/ Firmware-Version:
Docking Station 8-Slot	N/A
Docking Station 4-Slot	N/A
Advanced Dashboard 6RU	1.00.xx - 1.03.xx
Advanced Dashboard PM	1.00.xx - 1.03.xx
Standard Dashboard 3RU	1.03.xx
Adv Dashboard 6RU Basic Unit	1.00.xx - 1.03.xx
Adv Dashboard PM Basic Unit	1.00.xx - 1.03.xx
Std Dashboard 3RU Basic Unit	1.03.xx
4-20 mA Input Module	1.00.xx - 1.01.xx
4-20 mA Input Module / HART	1.01.xx
Digital Input Module	1.00.xx
Relay Module 24 V DC	1.00.xx
Relay Module 240 V AC	1.00.xx
Relay Module 24 V DC complex	1.00.xx
Relay Module 240 V AC complex	1.00.xx
Bridge Module	1.00.xx
Modbus RTU Gateway Set	1.00.xx
Long Distance Gateway Set	N/A
PROFIBUS DP Gateway Set	≥1.00.06
PROFINET Gateway Set	≥1.00.06
Slotcover	N/A
Terminal Block 24 pole AC	N/A
Terminal Block 24 pole DC	N/A
Terminal Block 2 pole	N/A
Terminal Block 16 pole	N/A
Terminal Block 16 pole res	N/A
REGARD 7000 Configuration Software	>=1.02.xx
REGARD 7000 PC-Software Key	N/A

Application/Limitation

System components to be installed in a metal cabinet.

System to be powered by the type approved power supply unit.

Dashboard not for installation on the bridge.

Type Examination documentation

Tests carried out

IEC 60092-504:2016, IEC 60533:2015

EN 50104:2010, EN 60079-29-1:2016

EN 60079-0:2012 incl. A11:2013 - not applicable

Marking of product

The products to be marked with:

- manufacturer name
- model name



Job Id: **344.1-007190-2**
Certificate No: **MEDB00002Z6**

- serial number