

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 Oxygen analysis and gas detection equipment

with type designation(s)
X-am 2500, X-am 5000, X-am 5600

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/3.30. SOLAS 74, Regulation II-2/4, VI/3, XI-1/7, FSS Code 15 and
MSC.1/Circ.1477

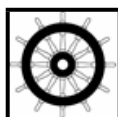
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-04-10**.

Issued at **Hamburg** on **2018-04-11**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Job Id: **344.1-007189-1**
Certificate No: **MEDB00002Z4**

Product description

Portable Gas Detector Dräger X-am 2500 (MQG 001*), X-am 5000 (MQG 00**), X-am 5600 (MQG 01**)

Main characteristic:

- Simultaneously measuring of combustible gas concentrations of vapours
- X-am 2500, X-am 5000, sensor type - catalytic (XDS 00xx)
- X-am 5600, sensor type - infrared (IDS 03xx)
- Battery operated
- Accessory external X-am Pump, DNV GL type approved

Software version: 7.x

Application/Limitation

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to DNV GL Rules and Ex-Certification / Special Condition for Safe Use listed in valid Excertificate issued by a notified/recognized Certification Body.

Type Examination documentation

Tests carried out

IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)

IEC 60092-504:2016

IEC 60533:2015

EN 60079-0:2012+A11:2013

EN 60079-1:2014

EN 60079-10-1:2015*

EN 60079-11:2012

EN 60079-15:2010*

EN 60079-26:2015*

EN 60079-29-1:2007

EN 50104:2010*

*not applicable

Marking of product

The products to be marked with:

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