

# 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**

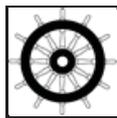
Further details of the equipment and conditions for certification are given overleaf.

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**  
Digitally Signed By: Mydlak-Röder, Christine

Location: DNV GL Hamburg, Germany  
on behalf of

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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

Test Report: Treo No. 197-17, issue 3 dated 11.12.2017

Test Report: Treo No. 316-17, issue 3 dated 13.12.2017

Test Report: CEcert No. 417.118.3 Rev.0 (20-03-2018)

Test Report: DEKRA No. 41300108P N9, dated 01.08.2017

EU Type Approval Certificate BVS 10 ATEX E 080 X (Amendment 7)

Drawings: SE20370-16, SE20421-05, SE20547-05, SE20553-02

Drawings: SE20555-07, SE20888-01, SE20889-01, SE20890-01

Instruction for Use "Dräger X-am 2500 (MQG0011), Software 7.n (≥ 7.0)", Edition 12

Instruction for Use "Dräger X-am 5000 (MQG0010), Software 7.n (≥ 7.0)", Edition 06

Instruction for Use "Dräger X-am 5600 (MQG0100), Software 7.n (≥ 7.0)", Edition 11

EU-Declaration of Conformity – Document No. SE26117-02

## 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