

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 Portable Multi-Gas Detector

with type designation(s)
X-am 3500 / X-am 8000

Issued to

Dräger Safety AG & Co. KGaA
Lübeck, Germany

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2018/773**,
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 **2024-08-27**.

Issued at **Hamburg** on **2019-08-28**

DNV GL local station:
Hamburg

Approval Engineer:
Dariusz Lesniewski



Notified Body
No.: **0098**

for **DNV GL SE**

Gerhard Aulbert
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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: **344.1-008168-1**
Certificate No: **MEDB000042W**

Product description

Dräger X-am 3500/8000 portable Multi-Gas Detector for the simultaneously detection of flammable gases and/or vapours and oxygen in ambient air.

Features (main)	Dräger X-am 3500 (HGF 0000)	Dräger X-am 8000 (HGF 0010)
Number of measured gases	1 to 4	1 to 7
Catalytic sensor: CatEx 125 PR	Yes	Yes
Catalytic sensor: CatEx 125 PR Gas	No	Yes
Infrared sensor: Dual IR Ex	No	Yes
Electrochemical sensor: O ₂	Yes	Yes
Electrochemical sensor: H ₂	No	Yes
Internal pump	Yes	Yes
Inductive charging	Yes	Yes
Menu assistance confined space and leak search	No	Yes
Event report	No	Yes

Technical data (main)

Display	Colour display
Alarms	Visual 3 LED 'red' (gas alarms) 3 LED 'yellow' (device alarms) Audible Multi-tone Vibration
Ingress protection class	IP 67
Power supply	Lithium-ion battery, rechargeable, inductive charging
Pump operation	Max. hose length 45 m
Ex-certification	ATEX, IECEx

Software version: 1.03.xx

Application/Limitation

When use of gas detector CatEx 125 PR / Gas in wheather exposed areas, e.g. on opend deck, the device must be in operation at all time.

For use in hazardous areas provisions listed in the valid Ex-certificates to be observed.

Type Examination documentation

Tests carried out

EN 60945:2002 incl. IEC 60945 Corr. 1:2008 or
IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)

IEC 60092-504:2016

IEC 60533:2015

EN 50104:2010

EN 60079-0:2012 incl. A11:2013

EN 60079-1:2014

EN 60079-11:2012

EN 60079-29-1:2016

EN 60079-10-1:2015*

EN 60079-15:2010*

EN 60079-26:2015*

*not applicable



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Marking of product

The products to be marked with:

- manufacturer name
- model name, model type
- serial number
- mark of conformity