

# 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)  
**Pac 6500**

Issued to

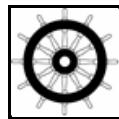
**Dräger Safety AG & Co. KGaA  
Lübeck, Germany**

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 **2024-08-21**.

Issued at **Hamburg** on **2019-08-22**

DNV GL local station:  
**Hamburg**for **DNV GL SE**Approval Engineer:  
**Dariusz Lesniewski**Notified Body  
No.: **0098****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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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: **344.1-008777-1**  
Certificate No: **MEDB00004SA**

## Product description

Portable single-gas detection device for O<sub>2</sub> detection.

Model Name	Type	Measuring range
Dräger Pac 6500 O <sub>2</sub>	MOG 0005	0 – 25 Vol.-%

Software version: v 7.0.x  
Degree of protection: IP68 (60 min)  
Ex-certification: ATEX, IECEx

## Application/Limitation

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

## Type Examination documentation

Test Report: paconsult no. 17-9713, dated 2017-12-04  
Test Report: CEcert no. 416.317.1 Rev.0, dated 2017-03-01  
Test Report: CEcert no. 416.317.4 Rev.0, dated 2018-05-02  
Test Report: Sira no. R70055573A, dated May 2017  
Test Report: TREO no. 039-19, dated 2019-02-19  
Evaluation Report: PTTI no. 18E/0008, dated 2018-12-18  
Supplementary Type Examination Certificate No. 1 to FTZU 18 E 0008 (2019-06-11)  
Overall Assembly Drawing SE23760-02 (2017-02-03)  
Data Sheet: Dräger Pac 6500 / 09  
Instruction of use: Dräger Pac 6x00 / 8x00 (MOG 00\*\*)  
EU-Type Examination Certificate: KIWA 19ATEX0031 (issue 1)  
IECEX Certificate of Conformity: IECEx KIWA 19.0017 (issue No. 0)

## 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 60079-11:2012  
EN 60079-29-1:2016\*  
EN 60079-1:2014\*  
EN 60079-10-1:2015\*  
EN 60079-15:2010\*  
EN 60079-26:2015\*  
\*not applicable

## Marking of product

The products to be marked with:  
- manufacturer name  
- model name, model type  
- serial number  
- mark of conformity