



Marine & Offshore

Certificate number: 36756/B0 BV

File number: AP 4470

Product code: 3797H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

Dräger Safety AG & Co. KGaA
Lübeck - GERMANY

for the type of product

FIXED TOXIC GAS DETECTORS
PIR 7200 (IDS 0105, IDS 0115)

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships & Offshore Units

EC Code: 33/41S

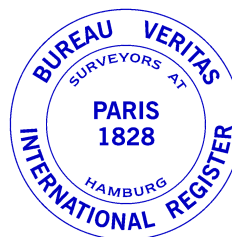
This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 15 Feb 2024

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 15 Feb 2019,

Dirk Hoepfner



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarnb.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=eruxuxo2x2>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Product model or type designation:

- **PIR 7200 (IDS 0105, IDS 0115)**

Product description:

- Flammable and toxic gas detector.

1.1 - Main Characteristics:

Principle: : Infrared
Power Supply: : 24V DC
Output: : 4-20 mA
Measured gas: : carbon dioxide (CO2)
Thread: : 3/4" NPT: IDS 0105
: M25: IDS 0115
Ingress protection: : IP65/IP66/IP67
Software Version : 2.0
Ex Approval : II 2D Ex tb IIIC T80°C, T130°C Db
: II 2G Ex d IIC T6/T4 Gb

2. DOCUMENTS AND DRAWINGS:

- Product information - Ref: 9103414, dated 01-08-2017.
- Safety manual - Ref: 9033034 - TM 4677.319, Edition 04, dated July 2014.
- Drawings :
SE20448 Rev.05 dated 27.09.2007; SE20507 Rev.05 dated 19-09-2014;
SE20630 Rev.03 dated 07.10.2014; SE20525 Rev.02 dated 18-08-2014.
- Instructions for User - Ref: 9023885-GA 4677.300_MUL091, Edition 15, dated April 2018.

3. TEST REPORTS:

TestCenter Dräger Medical:

- 07-00744-PR001 Rev.01 dated 27-04-2007.

CEcert:

- 408.345.1A dated 27.May 2009; 408.345.2A dated 27-05- 2009.
- Test report No. 416.040.2 Rev.0, dated 28-06-2016.

Dräger Aerospace:

- DAe-EC-TR-061/2007 dated 13-07-2007.

PTB:

- PTB 07 ATEX 1016, dated July 20, 2007 and 2nd Supplement, dated 11-12-2015.
- IP test reports 007/07a dated 2007-03-01 & 007/07b dated 05-03-2007.

RST Rail System Testing:

- P50-09-0030 dated 19-02-2009.

Dräger :

- Performance test according to EN 45544 No.:340301Ver01, dated 30-09-2014.
- Test Report IPx6/x7 No.:0438, dated 11-07-2013.

Demko :

- Ex certification No. DEMKO 07 ATEX 0654417X dated 17-12-2014.

4. APPLICATION / LIMITATION:

4.1 - Bureau Veritas Rules for the Classification of Steel Ships
4.2 - Approval also valid for ships to be granted with the notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
4.3 - Bureau Veritas Environmental Category, **EC Code: 33/41S**
4.4 - The equipments fulfils the EMC requirements for installation on bridge and deck zone
4.5 - The equipment, once installed on board ship, is to be tested in accordance with the above referred regulations under the supervision of a Society's Surveyor.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The **PIR 7200** are to be supplied by **Dräger Safety AG & Co. KGaA** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **Dräger Safety AG & Co. KGaA** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **Dräger Safety AG & Co. KGaA** has declared to Bureau Veritas the following production site(s):

Dräger Safety AG & Co. KGaA
Revalstraße 1
23560 Lübeck
GERMANY

6. MARKING OF PRODUCT:

- Maker's name or trademark.
- Date of manufacture and/or serial number.
- Equipment type or model identification.
- Ex marking as relevant.

7. OTHERS:

7.1 - It is **Dräger Safety AG & Co. KGaA**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate No. 36756/A0 BV issued on 18 Feb 2015 by the Society.

*** END OF CERTIFICATE ***