



Marine & Offshore

Certificate number: 71211/A0 MED

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This certificate is not valid when presented without the full attached schedule composed of 7 sections
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Notified Body 2690 - MARINE EQUIPMENT DIRECTIVE 2014/90/EU

EC TYPE EXAMINATION CERTIFICATE

as per Module B of Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations and Commission Implementing Regulation (EU) 2022/1157 of 4 July 2022

This certificate is issued to:

HONEYWELL ANALYTICS Ltd.

POOLE - UNITED KINGDOM

for the type of product

PORTABLE OXYGEN ANALYSIS AND/OR GAS DETECTION EQUIPMENT - CATEGORY 2 (EXPLOSIVE GAS ATMOSPHERES)

BW Flex Seires

Requirements:

SOLAS 74 convention as amended, Regulations II-2/4, VI/3.

IMO Res. MSC.98(73) -(FSS Code)- as amended by MSC.206(81), MSC.217(82), MSC.292(87), MSC.311(88), MSC.327(90), MSC.339(91) and MSC.457(101), 15

EN 60945:2002 incl. /Corr.1:2008

EN 50104:2019,

EN 60079-29-1:2016, EN 60079-0:2018 AC:2020, EN 60079-1:2014, incl.AC:2018-09, 60079-10-1:2021, EN 60079-11:2012, EN 60079-15:2010, EN 60079-26:2015

IEC 60092-504:2016 and IEC 60533:2015

IMO MSC.1/Circ.1477 and IMO MSC.1/Circ.1581

This certificate is issued on behalf of the French Maritime Authorities to attest that Bureau Veritas Marine & Offshore did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations.


This certificate will expire on: 15 Feb 2028**For Bureau Veritas Marine & Offshore Notified Body 2690,**

At BV LONDON, on 15 Feb 2023,

Spencer Yule

This certificate was created electronically and is valid without signature



This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark ) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

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. Bureau Veritas Marine & Offshore is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. 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 SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

BW Flex-i and BW Flex 4

Technical Specifications:

Working Temperature	: -40°C to 60°C
Working Humidity	: 5% to 95%
Ingress Protection	: IP66 & IP68
Ex Marking	: Ex ia I Ma, Ex ia IIC T4 Ga
Alarms and Type	: Visual, vibrating , audible (95 db) Low, High, TWA, STEL, Negative Drift, Over Limit, Multi-alarm
Typical Battery life	: 40 days @ 8 hours of use per day
Sensor Type	: Electrochemical Sensors, catalytic combustion sensor
Gas and Measuring Range	: catalytic LEL

2. DOCUMENTS AND DRAWINGS :

Honeywell:

- BW Flex datasheet, No. GAS_BW_Flex Series_DS Rev.A, dated Jan. 2021.
- BW Flex Quick Reference Guide, NO. M05-4002-001-Rev.A, dated 23-10-2020.
- BW Flex PCB Drawing, No. M05-1001-PCB Rev.5, dated 20-07-2020.
- BW Flex Main Board Circuit Diagram, No. 904-E300-030.34 Rev.5, dated 21-07-2020.
- Risk Analysis Assessment, dated 07-04-2022.

Ex certificate:

- IECEx Certificate IECEx SIR 20.0020X - Issue 1, dated 09-11-2020.
- EU Type Examination Certificate, No. Sira 20 ATEX2012X - Issue 3, dated 14-04-2022.
- EU Type Examination Certificate No.1, No. FTZU 22 ATEX 0031X, dated 20-12-2022.
- ATEX Assessment Report No. 22/0031/1, dated 20-12-0022.
- CSA Certificate of Compliance , No. 80028223, dated 14-07-2022.

3. TEST REPORTS :

MS TESTING:

- Test Report No. TL 21052A, dated 07-01-2022.
- Test Report No. TL 21052B, dated 07-01-2022.
- Test Report No. TL 22291, dated 21-10-2022.

Intertek:

- IP Test Report No. 201001243SHA-5001, dated 02-11-2020.

FTZU:

- Type Examination certificate, No. FTZU 22 E 0009, dated 31-10-2022.
- Test Report No. 22.0149-84, dated 24-02-2022.

4. APPLICATION / LIMITATION :

- 4.1 - As per Requirements of Regulations stated on the front page of this certificate.
- 4.2 - The equipment fulfils the EMC requirements for installation on the Bridge and Deck Zone.
- 4.3 - EN 60079-10-1, EN60079-15 and EN 60079-26 are not applicable to the above products.
- 4.4 - Ex-certification is not covered by this certificate, Applications in hazardous areas are to be approved in each case according to the Rules and Conditions for Safe Use specified in a valid Ex-Certificate issued by a Notified or Recognised Certification Body.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - This certificate alone does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D Production Quality Assurance or module E Product Quality Assurance or module F Product Verification of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

5.2 - For information concerning the production phase modules, **HONEYWELL ANALYTICS Ltd.** has declared the following manufacturing site(s):

HONEYWELL ANALYTICS Ltd.
Hatch Pond House
4 Stinsford Road
Nuffield Estate
POOLE
UNITED KINGDOM

5.3 - The following components shall comply with the requirements of MED 2014/90/EU, as amended, and be wheelmarked:
- BW Flex-i and BW Flex 4

6. MARKING OF PRODUCT :

Nil. Reference is made to MED 2014/90/EU chapter 2.

In particular Article 10.3 specifies that the wheelmark shall be followed by the identification number of the Notified Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

7. OTHERS :

It is **HONEYWELL ANALYTICS Ltd.**'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.

*** END OF CERTIFICATE ***