



Marine & Offshore  
Division

Certificate number: 18830/A1 EC

File number: AP 3798

Annex A1 Item number: A.1/3.54

This certificate is not valid when presented without the full  
attached schedule composed of 7 sections  
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Notified Body 0062 - MARINE EQUIPMENT DIRECTIVE 96/98/EC

## EC TYPE EXAMINATION CERTIFICATE

as per Module B of European Union Council Directive 96/98/EC on marine equipment  
as amended by Commission Directive 2013/52/EU

This certificate is issued to

**HONEYWELL ANALYTICS Ltd.**

POOLE - UNITED KINGDOM

for the type of product

**FIXED OXYGEN ANALYSIS AND GAS DETECTION EQUIPMENT**

Fixed Flammable Gas Detectors - Type: Searchpoint Optima Plus, Optima X and Optima Z

### 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) and MSC.339(91), 15

IMO MSC.1/Circ.1370

IEC 60092-504 (2001) incl. Corr.1 (2011), IEC 60533 (1999)

EN 50104 (2010), EN 60079-29-1 (2007)

IEC 60079-0 (2011) incl. Corr.1 (2012) & Corr.2 (2013)

This certificate is issued on behalf of the French Maritime Authorities to attest that BUREAU VERITAS did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Council Directive 96/98/EC of 20 December 1996 as amended.


**This certificate will expire on: 16 Oct 2017**

For BUREAU VERITAS Notified Body 0062,

At BV LONDON, on 13 Feb 2015,

Spencer Yule



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 B 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. 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 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 Division 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 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:

**Searchpoint Optima Plus, Optima X and Optima Z (Type: 2108B2XXYZ)** are Infrared Point Gas Detectors designed to detect flammable gases.

#### **1.1 - Main Characteristics:**

<b>Principle</b>	Infrared
<b>Output</b>	Optima X: 4-20 mA only Optima Plus & Optima Z: 4-20 mA (with or without HART protocol)
<b>Power Supply</b>	24 VDC (18-32 VDC)
<b>Software Version</b>	4.0/4.1 or 6V2 on all types versions
<b>Ex marking</b>	Ex d op is IIC T* Gb Ex tb IIIC T* Db *T86°C (Ta -40°C to +55°C) or *T96°C (Ta -40°C to +65°C)
<b>Ingress Protection</b>	IP66/67

#### **1.2 - Covered Types:**

<b>2108B2XXYZ</b>	XX= 00 (ATEX CE Type) or 02 (ATEX X Type) Y= 1 (Hydrocarbon Type) or 3 (Ethylene Type) Z= H (Optima Plus with HART Protocol Type) or N (Optima Plus without HART Protocol Type)
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### 2. DOCUMENTS AND DRAWINGS:

#### **Honeywell:**

Installation Guide, MAN0838 Issue 3 05-10  
 Operating Instructions, MAN0551 Issue 11 04-12  
 Searchpoint Optima Plus with optional HART® output Operating Instructions 2108M0550 No. MAN905 Issue 5\_12/13  
 Data Sheet, Ref. H\_Searchpoint Optima Plus\_DS0276\_V9\_EMEAI dated 08/13.  
 Drawings No. 2108E0036 Iss. 7, 2108E0037 Iss. 3, 2108E0038 Iss. 1, 2108E0039 Iss. 7 and 2108E0044 Iss. 2.  
 Drawings No. 2108E0042 Iss. 1 Protective Cover Details,  
 Drawings No. 2108E0045 Iss. 1 Cert Label for Consilium.

### 3. TEST REPORTS:

#### **TÜV:**

Test report dated 08/09/2006, referenced SX614977/01  
 Test report dated 08/09/2006, referenced SX614977/02  
 Test report dated 09/2006, referenced OO614977/01  
 Test report dated 08/09/2006, referenced SJ614977/01

#### **AQLEMC:**

Test report dated 07/10/2003, referenced 1007B/30.

#### **EECS / Baseefa:**

EC-Type Examination Certificate No.: Baseefa13ATEX0296X dated 2014-05-14.

#### **EXAM / DEKRA:**

EC-Type Examination Certificate No. BVS 03 ATEX G 016 X with its 7th Sup., last update on 14 August 2014 (Testing according to EN60079-29-1 requirements of Optima Plus, Z and X).

#### **IEC:**

IECEX Certificate No. IECEX BAS 13.0069X Issue No.:1, dated 2014-09-05.

### 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, Deck Zone and General Power Distribution Zone.

4.3 - Only Hardware and Software successfully tested together in compliance with the regulations as referred to in page one, according to the declaration of the manufacturer are covered by this certificate.

**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 E "Product Quality Assurance" or F "Product Verification" of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

**6. MARKING OF PRODUCT:**

6.1 - According to EN 60079-29-1.

6.2 - Ex marking, as relevant.

6.3 - Markings as per MED 96/98/EC :

☒ YYYY/XX where YYYY is the number of the Notified Body undertaking surveillance module (when BV, 0062) and where XX are the last two digits of year mark affixed.

**7. OTHERS:**

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that: **HONEYWELL ANALYTICS Ltd. - Hatch Pond House - 4 Stinsford Road - Nuffield Estate - POOLE - UNITED KINGDOM** will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate No. 18830/A0 EC issued on 16 Oct 2012 by the Society.

\*\*\* END OF CERTIFICATE \*\*\*