



CERTIFICATE NUMBER  
15-HS1399407-PDA

DATE  
04 Aug 2015

ABS TECHNICAL OFFICE  
Houston OED - Systems

# CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of  
**BW TECHNOLOGIES BY HONEYWELL**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Gas Detector**

Model: **Gas Alert Max XT II (Model XT-XWHM-\*\*\*)**


This Product Design Assessment (PDA) Certificate 15-HS1399407-PDA, dated 04/Aug/2015 remains valid until 03/Aug/2020 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

  
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Tim Kimble  
Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

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**Tier: 3 - Type Approved, unit certification not required**

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**Product:** Gas Detector**Model:** Gas Alert Max XT II (Model XT-XWHM-\*\*\*)**Intended Service:**

Marine &amp; Offshore Applications - Portable Multi Gas Detector

**Description:**

The Gas Alert Max XT II is an intrinsically safe, portable multi-gas detectors for monitoring up to 4 gases simultaneously and continuously: oxygen, combustibles, carbon monoxide and hydrogen sulphide. A 4.2V Lithium Polymer battery pack powers the detector.

**Rating:**

IEC: Ex ia IIC T4 Ga;

ATEX: II 1G Ex ia IIC T4 Ga;

CSA: Class I, Division 1, Groups A, B, C &amp; D;

Ambient Temperature Range: -4 °F to +122 °F (-20 °C to +50 °C);

Enclosure: IP66/67

See attached "pdf" Specifications for Ratings, Certifications, Options, Alarms, Gases Detection, etc.

**Service Restriction:**

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, this specification or standard, including inspection standards and tolerances, must be clearly defined.

**Comments:**

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

- Intrinsically Safe when powered by Lithium Polymer battery pack part number MX-BAT01.
- Meets the Performance requirements for Combustible Gas Detectors in ANSI/ISA S12.13
- Approval is for hardware only. Each vessel configuration and external connection is to be specifically approved.

**Notes/Drawing/Documentation:**

Drawing No. 126561-L3 H GasAlertMax XT II Cert BOM, Certification BoM, Revision: H, Pages: 1

Drawing No. 131226 MXTA-14A label certification (Max XT II), Certification Label, Revision: A, Pages: 1

Drawing No. 50107291-005 MXTA-16a MaxXT II Label made in UK, Label, Revision: B, Pages: 1

Drawing No. 50107291-006 MXTA-17a MaxXT II Label Zero gas, Label, Revision: B, Pages: 1

Drawing No. CoFC 70018920\_50118920-015, CSA Certificate of Conformity, Revision: -, Pages: 1

Drawing No. EC CERT\_216899400-08ATEX0001-Iss4\_Signed\_50118920-016, EC Type Examination, Revision: -, Pages: 1

Drawing No. MAX XT II CoC IECEX CSA 07, IECEX Certificate of Conformity, Revision: -, Pages: 1

Drawing No. MXTW-10K, Cover Page, Revision: -, Pages: 1

Drawing No. Max XT II Updates, New Updates Sheet, Revision: -, Pages: 1

IECEX Certificate of Conformity: IECEX CSA 07.0012 dtd 2015/04/30

EC Type Examination Certificate No: KEMA 08ATEX0001

CSA Certificate: 1985673 (80259) dtd 2015/02/27

**Terms of Validity:**

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This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence

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**Tier: 3 - Type Approved, unit certification not required**

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or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

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**STANDARDS**

**ABS Rules:**

Rules for Conditions of Classification, Part 1 2015 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2015 Steel Vessel 4-8-4/27, 4-8-3/13, 5-1-7/17.7, 5-1-7/31.9 & 5-1-7/Table 1;

Rules for Conditions of Classification, Part 1 - 2015 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2015 Mobile Offshore Drilling Units 4-3-1/15, 17.1, 4-3-3/9.1.2;

2015 Facilities on Offshore Installations 3-8/7.3.1(i).

**National:**

UL 913, ANSI/ISA-12.13.01-2000, ANSI/IEC 60592-2004

**International:**

IEC 60079-0:2011, IEC 60079-11:2011, EN 60079-0:2012, EN 60079-11:2012, EN 60079-26:2007, CSA C22.2 No. 0-2010, CSA C22.2 No. 152-M1984, CSA C22.2 No. 157-M1992, CSA C22.2 No. 60529-05

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA