

CERTIFICATE NUMBER 15-HS1399407-PDA-DUP

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

SYSTEM SENSOR DE MEXICO S DE RL DE CV

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-DUP, 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

Engineer

SYSTEM SENSOR DE MEXICO S DE RL DE CV

AVE VALLE DEL CEDRO 1681 PAR IND INTERMEX JUAREZ CHIHUAHUA 32574

JUAREZ CHIHUAHUA

Mexico 32574

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Web: systemsensor.com

Tier: 3 - Type Approved, unit certification not required

Product:

Gas Detector

Model:

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

Intended Service:

Marine & Offshore Applications - Portable Multi Gas Detector

The Gas Alert Max XT II is an intrinsically safe, portable multi-gas detectors for monitoring up to 4 gases simultaneously and continously: oxygen, combustibles, carbon monoxide and hydrogen suplhide. 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 & 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, the 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, Lable, 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: -,

Drawing No. MAX XT II CoC_IECEx CSA 07, IECEx Certificate of Conformity, Revision: -, Pages: 1
Drawing No. MAX XT II Updates, New Updates Sheet, Revision: -, Pages: 1
Drawing No. Max XT II Updates, New Updates Sheet, Revision: -, Pages: 1

IECEx Certificate of Confirmity: IECEx CSA 07.0012 dtd 2015/04/30

EC Type Examination Certificate No: KEMA 08ATEX0001

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

Terms of Validity:

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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