



CERTIFICATE NUMBER

13-HS1065741-PDA

DATE

28 August 2013

ABS TECHNICAL OFFICE

Houston SED - Ship Systems

CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of
OTIS INSTRUMENTS INC - BRYAN

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 Detection and Alarm System**

MODEL: **OI-6000, OI-6900, OI-7010, OI-7032, OI-9900, OI-7530, OI-7543,
OI-7500-XP, OI-9850**

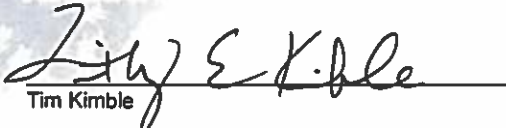
This Product Design Assessment (PDA) Certificate 13-HS1065741-PDA, dated 28/Aug/2013 remains valid until 27/Aug/2018 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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


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-A/3/9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

OTIS INSTRUMENTS INC

2200 EAST VILLA MARIA ROAD
BRYAN
TX 77802
United States
Telephone: 979-776-7700
Fax: 979-776-7719
Email: gary martin <gary@otisinstruments.com>
Web: www.otisinstruments.com

Product: Gas Detection and Alarm System

Model: OI-6000, OI-6900, OI-7010, OI-7032, OI-9900, OI-7530, OI-7543,
OI-7500-XP, OI-9850

Intended Service:

Marine & Offshore Application - for detection of Toxic, Explosive or Life-sustaining Gases

Description:

OI-6000 WireFree Sensor Assembly, OI-6900 Battery-Powered WireFree Sensor Assembly, OI-7010 Hybrid Monitor, OI-7032 Touch-Screen Hybrid Monitor, OI-9900 WireFree Repeater, OI-7530 Explosion-Proof WireFree Relay, OI-7500-XP Explosion-Proof WireFree Monitor, OI-9850 WireFree Interface;

Ratings:

See attached "pdf" Specification Sheets for Model;

Hazardous Area Application: OI-6000, OI-6900, OI-7500-XP, OI-7530, OI-9900

Non-Hazardous Area Application: OI-7010, OI-7032, OI-7543, OI-9850

Service Restrictions:

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.

Notes / Drawings / Documentation:

Supporting Data:

- * OTIS 2013 Product Catalog Gen2;
- * OTIS 2012-2013 Product Catalog Gen2, 18 Pages;
- * OI-7530 Data Sheet, Rev. 1.0, 2 shts;
- * OI-6000 Data Sheet, Rev. 1.5, 2 shts;
- * OI-9850 Data Sheet, Rev. 1.0, 2 shts;
- * OI-6900 Specification, 2 shts;
- * OI-7010 Specification, 2 shts;
- * OI-7032 Specification, 2 shts;
- * OI-9900 Specification, 2 shts;
- * OI-7530 Specification, 2 shts;
- * OI-7500-XP Specification, 2 shts;
- * Certificate No. Sira 10ATEX1089X, Issue 1, Toxic Gas Detectors -Models OI-5900, OI-6000, OI-6900 & OI-7000, 3 Shts & Annex Issue 0, 2 shts;
- IECEx Quality Assessment Report: CA/CSA/QAR09.0016/00 dated 15 September 2009, Toxic Gas Detectors;

Term of Validity:

This Product Design Assessment (PDA) Certificate I3-HS1065741-PDA, dated 28/Aug/2013 remains valid until 27/Aug/2018 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

OTIS INSTRUMENTS INC

2200 EAST VILLA MARIA ROAD
BRYAN
TX 77802
United States
Telephone: 979-776-7700
Fax: 979-776-7719
Email: gary martin <gary@otisinstruments.com>
Web: www.otisinstruments.com

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.

STANDARDS

ABS Rules:

2013 Steel Vessels Rules I-1-4/7.7, I-1-A3, 4-8-3/1.11, 4-8-3/Table 2, 4-8-3/13.1, 4-8-4/27.5

National:

CSA File No: 081200_0_000

International:

Sira Certificate No: Sira I0ATEX1089X
EN 60079-0:2006, EN 60079-1:2007, EN 60079-11:2007, EN 60079-18:2004,

Government Authority:

NA

EUMED:

NA

Others:

NA