



CERTIFICATE NUMBER

12-LD943970-PDA

DATE

30 October 2012

ABS TECHNICAL OFFICE

London Engineering Department

CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of
CORDEX INSTRUMENTS LTD - MIDDLESBOURGH

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: **Infrared View Panel**

MODEL: **Types IW2000, IW 3000 and IW4000 Intelligent IR Window for electrical components and switchgear**

This Product Design Assessment (PDA) Certificate 12-LD943970-PDA, dated 30/Oct/2012 remains valid until 29/Oct/2017 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



Wing F. Cheung
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/3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

CORDEX INSTRUMENTS LTD

1 OWENS ROAD
SKIPPERS LANE INDUSTRIAL ESTATE
MIDDLESBOURGH
TS66HE
United Kingdom
Telephone: +44 1642 454373
Fax: +44 1642 424737
Email: sales@cord-ex.com

Product: Infrared View Panel
Model: Types IW2000, IW 3000 and IW4000 Intelligent IR Window for electrical components and switchgear

Intended Service:

Marine and Offshore Applications - To allow Preventive maintenance of electrical components and switchgear

Description:

Infra red window with protective cover intended for installation in switchboard enclosures permitting thermal readings to be taken of internal equipment without opening the enclosure

Ratings:

UL Type 3 and 12

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:

Installation is to be in accordance with the requirements of the end product standard and is to take into account Conditions of Acceptability as detailed in UL File E352489, Vol 1, Sect. 1.
Corrections to thermal readings obtained through the window should be applied in accordance with manufacturer's data

Notes / Drawings / Documentation:

UL Report, File E352489 issued 2012-06-08

Term of Validity:

This Product Design Assessment (PDA) Certificate 12-LD943970-PDA, dated 30/Oct/2012 remains valid until 29/Oct/2017 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.

STANDARDS

ABS Rules:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. The Rules applicable to this assessment are: 2012 Steel Vessel Rules 1-1-4/7.7, 4-8-3/1.11.1, 4-8-3/1.17.1, 4-8-3/5.3.1

National:

UL 50E 1st Ed rev 2012-04-27; UL 50V 1st Ed iss 2007-11-05; UL 1558 4th Ed rev 2010-04-16



MFC