



Confirmation of Product Type Approval

Company Name: CLASS INSTRUMENTATION LTD

Address: 837 GARRATT LANE SW17 0PG United Kingdom

Product: Tightness Detection System

Model(s): Door Safe

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	19-LD1886423-PDA	29-JUL-2019	28-JUL-2024
Manufacturing Assessment (MA)	16-LD3207821	29-SEP-2016	03-OCT-2021
Product Quality Assurance (PQA)	NA	NA	NA

Tier

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Intended Service

Water tightness testing system for use on ABS classed vessels and offshore installations in accordance with the listed ABS Rules and International Standards.

Description

The system comprises a micro-processor controlled transmitter, containing 13 off 40 KHz emitters arranged on a dome, producing uniformly distributed omni-directional ultrasound field and a handheld ultrasonic receiver unit which, connects to a 10 mm diameter inspection microphone on a telescopic arm thereby allowing tightness measurements in dBuV values. Primary function is to test doors for water tightness but can also be used to check tightness of doors, windows, ramps, opening and bulkhead.

Ratings

Power supply: Transmitter - 6 Rechargeable NiMH or 6 disposable AA Alkaline batteries; Receiver: 1 PP3 9V battery

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. Operators are to be suitably trained in the operation of the equipment.

Notes, Drawings and Documentation

Drawing No. Class Instrumentation Ltd Door-Safe EMC report, EMC Report, Date: 23-Jan-2014, Class

Instrumentation Ltd, Revision: -, Pages: -

Drawing No. Door-Safe Data Sheet, Datasheet, Revision: -, Pages: -

Term of Validity

This Product Design Assessment (PDA) Certificate 19-LD1886423-PDA, dated 29/Jul/2019 remains valid until 28/Jul/2024 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.

ABS Rules

- Marine Vessel Rules (2019): 1-1-4/7.7, 1-1-A3&A4, 4-8-3/1.7, 4-9-9/7, 4-9-9/13, 4-9-9/Table1;
- Facilities on Offshore Installations (2019): 1-1-4/9.7, 1-1-A2&A3;
- Mobile Offshore Units (2019): 1-1-4/9.7, 1-1-A2&A3, 4-1-1/7.9, 4-3-1/11, 6-1-1/9, 6-1-1/13;
- Steel Vessels for Service on Rivers and Intracoastal Waterways (2019): 1-1-4/7.7, 1-1-A3&A4;
- High Speed Crafts (2019): 1-1-4/11.9, 1-1-A2&A3, 4-6-1/11, 4-7-9/7, 4-7-9/15, 4-7-9/Table 9;
- Steel Barge Rules (2019): 1-1-4/7.9, 1-1-A3&A4;

International Standards

IACS UR E10, Rev.6:2014

EU-MED Standards

NA

National Standards

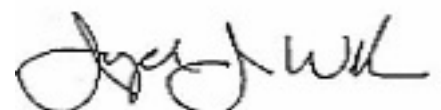
NA

Government Standards

NA

Other Standards

NA



Corporate ABS Programs
American Bureau of Shipping

Print Date and Time: 03-Apr-2020 9:01

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.