



## Confirmation of Product Type Approval

**Company Name:** CLASS INSTRUMENTATION LTD

**Address:** 837 GARRATT LANE SW17 0PG United Kingdom

**Product:** Tightness Detection System

**Model(s):** Cargo-Safe

<b>Certificate Type</b>	<b>Certificate Number</b>	<b>Issue Date</b>	<b>Expiry Date</b>
Product Design Assessment (PDA)	20-1966580-PDA	03-APR-2020	02-APR-2025
Manufacturing Assessment (MA)	16-LD3207821	29-SEP-2016	03-OCT-2021
Product Quality Assurance (PQA)	NA	NA	NA

### **Tier**

3

### **Intended Service**

ABS Classed Vessels and Offshore Facilities in accordance with the listed ABS Rules and International Standards.

### **Description**

Water tightness testing system used on ABS vessels and offshore units. Primary function is to test cargo hatch cover for water tightness but can also be used to check tightness of doors, windows, ramps, openings and bulkheads.

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. (Memorisation of data and in a specific routine for hatch cover tightness testing, logging and downloading to a PC for appropriate reporting)

### **Ratings**

Power supply: Transmitter - 9 - 24 VDC Rechargeable NiMH or 6 disposable AA Alkaline batteries, Receiver: 1 PP3 9V battery

### **Service Restrictions**

Unit Certification is not required for this product.

Not to be used in hazardous environments.

### **Comments**

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

**Notes, Drawings and Documentation**

Drawing No. Manual Cargo Safe Ultrasonic Hatch Cover Tester -1

**Term of Validity**

This Product Design Assessment (PDA) Certificate remains valid until 02/Apr/2025 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

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 previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

**ABS Rules**

The Rules applicable to this assessment are:

- Marine Vessel Rules (2020): 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 (2020): 1-1-4/9.7, 1-1-A2&A3;
- Mobile Offshore Units (2020): 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 (2020): 1-1-4/7.7, 1-1-A3&A4;
- High Speed Crafts (2020): 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 (2020): 1-1-4/7.9, 1-1-A3&A4;

**International Standards**

NA

**EU-MED Standards**

NA

**National Standards**

NA

**Government Standards**

NA

**Other Standards**

NA



A handwritten signature in black ink, appearing to read 'James W. ...', is written over a light blue grid background.

Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 03-Apr-2020 8:56

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.