



Confirmation of Product Type Approval 21/JUL/2011

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

This is to certify that, pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 09/APR/2013. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until 10/APR/2013 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

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.

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.

POLE STAR SPACE APPLICATIONS LTD.

Model Name(s): Pole Star DSAS

Presented to:

POLE STAR SPACE APPLICATIONS LTD.
COMPASS HOUSE, 4TH FLOOR
22 REDAN PLACE
LONDON
United Kingdom

Intended Service:

The Pole Star DSAS unit is self-contained vessel tracking systems using Inmarsat IsatM2M to provide global coverage. The unit consists of a satellite tracking transceiver with integrated antenna and optional GPS receiver. Normal operation is from an external DC Supply. The DSAS unit also incorporates an internal battery allowing up to 7 days independent operation. A panic button triggers the transceiver to switch to emergency reporting mode (usually at a rate of 1 emergency position report every 30 minutes).

Description:

The ship security alert system is provided for the purpose of transmitting a security alert to the shore to indicate to a competent authority that the security of a ship is under threat.

Ratings:

DSAS and DSAS-L: 24V DC input voltage Internal battery in DSAS unit allows up to 7 days independent operation

Service Restrictions:

The SOLAS Convention does not require SSAS to be typed approved by the Administration.

Comments:

Transmission of security alerts and performance standards are in accordance with IMO Resolution MSC.147 (77) recommendations for ship security alert system. Transmission initiated by the security alert system includes a unique code/identifier indicating that the alert has not been generated in accordance with GMDSS distress procedures. The transmission includes the ship identity and current position with a date and time, and is addressed to a shore station, and not addressed to ship stations

Notes / Documentation: This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

Term of Validity: This product/model is covered under Product Design Assessment (PDA) Certificate # 03-LD359588/2-PDA, dated 11/Apr/2008. This PDA Certificate expires 10/Apr/2013. It will remain valid for 5 years from date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first). It is valid for all vessels contracted on or before the date of the Rules used in this evaluation.

ABS Rules: 2008 Steel Vessel Rules 1-1-4/7.7, 4-9-7/13.1 and 4-9-7/Table 9 and 10

National Standards:

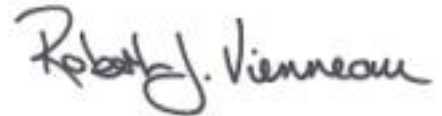
International Standards: IEC 60945 (relevant sections) and IACS E10

Government Authority:

EUMED:

Others:

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	03-LD359588/2-PDA	11/APR/2008	10/APR/2013



ABS Programs

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 was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. 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.