



EC Type-Examination Certificate

N°. MED-B-13271

This is to certify that Nemko AS did undertake the relevant Type Approval Procedures for the product identified below

The product

AIS SART equipment

Designated

**Tron AIS-SART
and
SIMRAD SA70 AIS-SART**

Manufactured by

Jotron AS

Address

Østbyveien 1, P.O.Box 54, N0-3280, Tjodalyng, Norway

which was found to be in compliance with the requirements of the Navigation equipment of the Marine Equipment Directive (MED) 96/98/EC, as amended, last amended by Directive 2011/75/EU of 2 September 2011, subject to any conditions in the schedule of approval attached hereto. This product also fulfills the requirements of Directive 2012/32/EU of 25 October 2012, which will enter into force 30 November 2013 – see note on limitations in Annex.

Specified regulations and standards:

Module B of the Directive. Solas 74 as amended, Reg. III/4, Reg. IV/14, Reg. III/6, Reg. IV/7, IMO Res. MSC.246(83), IMO Res. MSC.247(83), IMO Res. MSC.256(84), ITU-R M. 1371-4(2010). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-14 (2010), IEC 61162 Series.

This certificate replaces certificate NO. MED-B-13232, which is revoked.

This certificate loses its validity if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to and agreed upon with Nemko. Before any software changes are implemented, the changes must be recorded and documentation must be provided to Nemko for review and acceptance. Major software changes must be approved by Nemko prior to any implementation. Should the specified regulations or standards be amended during the validity of this certificate, the products are to be re-approved prior to them being placed on board vessels to which the amended regulations or standards apply.

The attached Schedule of Approval forms part of this certificate. The certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Place and date of issue: Oslo, 02 July, 2013

Issued by: Nemko AS, Notified Body EU Id # 0470

Date of expiry: 02 July, 2018

Signed:

This certificate consists of 2 pages

Name: Roy Uggerud, Authorized Signatory

SCHEDULE OF APPROVAL

Product description

- ❑ Main unit(s): Jotron Tron AIS-SART and SIMRAD SA70 AIS-SART
Frequency: 161.975MHz and 162.025MHz
- ❑ Battery module - Two C-size SAFT LSH 14 light Lithium batteries
- ❑ Software module 85362, SW.V.1.09
- ❑ OEM variant SIMRAD SA70 AIS-SART is identical to Jotron Tron AIS-SART both electronic, mechanical, battery, software and all physical dimensions, including weight. The difference is the color of the plastic housing, labels and user manual.

Any limitations on the acceptance or use of the product or specific requirements

- ❑ Jotron Tron AIS-SART/SIMRAD SA70 AIS-SART to be used on vessels and life rafts in the maritime service
- ❑ With regards to the Directive 2012/32/EC, the manufacturer cannot issue a Declaration of Conformity with reference to this directive before 30 November 2013, subject to any national delays in the implementation of the Directive.

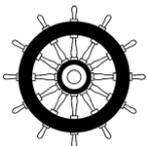
The approval documentation

- ❑ Jotron AS – User Manual, 85355_UM_AIS-SART_G. Dated 29.08.12
- ❑ Jotron AS – Technical Manual, 85356_TM_AIS-SART_B. Dated 20.11.09
- ❑ Jotron AS – Principle Diagrams, Block Diagrams, Circuit Diagrams, Part/Component list, Label layouts
- ❑ Jotron AS – OEM Statement. Dated 05.09.2012
- ❑ SIMRAD – AIS-SART User Guide . Received 30.08.2012
- ❑ BSH – Test report no. BSH/4615/4361270/09/S3140 - Conformance test report of a GPS receiver modul integrated in an AIS SART: IEC 61097-14. Dated 8 December 2009
- ❑ BSH – Test report no. BSH/4615/4361595/10 - Conformance test report of an AIS SART: IEC 61108-1:2003. Dated 22nd March 2010.
- ❑ Nemko AS – Test report no. 126928/03 GLOBAL MARITIME DISTRESS AND SAFETY SYSTEM methods and required results. IEC 60945. Dated 2009-11-09.

Alternative approval documentation for SIMRAD SA70 AIS-SART

- ❑ Navico/SIMRAD – 000-10740-001User Manual, SA70 AIS-SART.

Limitations/restrictions



"The Mark of Conformity" (i.e. the Wheel mark) may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module D (Production Quality Assurance), E (Product Quality Assurance), or F (Product Verification), of Annex B of the Directive (MED) is fully complied with and controlled by a written inspection agreement with a notified body."

----- End of certificate -----