EC TYPE EXAMINATION CERTIFICATE

MED-B-15121

In compliance with Module B of Council Directive 2014/90/EU of the European Parliament and included the Implementing Regulation (EU) 2019/1397 of 6 August 2019, this certificate is issued to the manufacturer:

Jotron AS
Ringdalskogen 8
NO-3270 Larvik, Norway

And applies to the product

AIS SART equipment
Tron AIS-SART

This certificate attest that provisions according to type examination requirements given in

SOLAS 74 Reg. III/4	IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)
SOLAS 74 Reg. III/6	IEC 61097-14 (2010)
SOLAS 74 Reg. III/26	
SOLAS 74 Reg. IV/7	
SOLAS 74 Reg. IV/14	
IMO Res. MSC.246(83)	
ITU-R M.1371-5 (2014)	

This certificate replaces certificate no MED-B-15121 Rev. 00, 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. Software changes and updates: - See Product description in the Annex. 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.

Oslo, 2020-03-04   Date of expiry: 2025-03-03

Notified Body Id. no. 0470
Nemko AS
Philip Pedersens vei 11,
1366 Lysaker, Norway

Roy Uggerud
Nemko AS

Annex I to EC Type-Examination Certificate, No. MED-B-15121

SCHEDULE OF APPROVAL

Product description
Search and Rescue Unit based on the AIS system

Operating frequencies: 161.975MHz and 162.025MHz

Tron AIS-SART   software version: 01.01.xx

Minor software changes, represented by increasing the last 2 digits of the core revision number, are given with a notification to Nemko.
Major software changes, represented by increasing the first digit of the core revision number, must be recorded and documentation must be provided to Nemko for review and acceptance before implementation.

The EC Type-Examination Certificate covers the products listed below

Item	Type	Designation	Manufacturer	Commment
1	Tron AIS-SART	406 MHz EPIRB (COSPAS-SARSAT)	Jotron A/S	
2	SAFT LSH 14 light	Battery module, two C-size Lithium batteries	Jotron A/S	
3	Module 85362	Software module	Jotron A/S	

Trademarks
Products covered by this certificate are identified by the designation of TRON or Jotron followed a description.
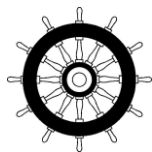Jotron: Tron AIS-SART – 406 MHz EPIRB (COSPAS-SARSAT)

Type approval documentation

Document	Document no.	Rev.	Do.
Manual, Jotron AS: User Manual, 85355_UM_AIS-SART_G	85355	29.08.12	001
Manual, Jotron AS: Technical Manual, 85356_TM_AIS-SART_B	85356	20.11.09	002
Principle Diagrams, Jotron AS: Block Diagrams, Circuit Diagrams, Part/Component list, Label layouts	---	---	003
Report, BSH: Conformance test report of an AIS SART: IEC 61097-14	BSH/4615/4361 270/09/S3140	08.12.2009	004
Report, BSH: Conformance test report of a GPS receiver module integrated in an AIS SART: IEC 61108-1:2003	BSH/4543/001/4 142886/15	26.01.2015	005
Report, Nemko AS: GLOBAL MARITIME DISTRESS AND SAFETY SYSTEM methods and required results. IEC 60945	126928/03	09.11.2009	006
Statement Jotron: Statement_TronAIS-SART	---	20.03.2020	007

Limitations/restrictions
Jotron Tron AIS-SART to be used on vessels and life rafts in the maritime service

"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 --------------