



UK Approved Body Authorised
by the MCA



Marine Equipment UK Assessment Module B Type Examination Certificate

This is to certify that TUV SUD BABT UNLIMITED did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, under Annex 1 of the listed Amendment of MSN 1874 for the types of equipment identified.

MSN 1874 Amendment	Amendment 6
Certificate Holder and Manufacturer	em-trak Marine Electronics Ltd. Wireless House First Avenue Westfield Industrial Estate Midsomer Norton Bath, BA3 4BS United Kingdom
Product(s)	SART 100 (409-0018)
Product Sector	Navigation equipment
Product Type	UK/4.55 Search and rescue locating devices (SRLD): AIS SART equipment

and on the basis of the Technical Data and information detailed in the Annex to this certificate.

Valid from: 01 September 2022 (Signature) *M Hardy* Expiry Date: 25 February 2023

This certificate has been issued in accordance with the TÜV SÜD Testing and Certification Regulations and constitutes page 1 of the combined Certificate and Annex.
The Conditions for the validity of this certificate are listed in the Annex.
For further details, related to this certification please contact BABT@tuvsud.com



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Annex to Marine Equipment UK Conformity Assessment Module B Type Examination Certificate

1 Equipment Description

AIS SART equipment

1.1 Models

Model	Description
409-0018	em-trak SART 100 ^{Note 1}

2 Assessed Requirements

2.1 MSN 1874 Amendment 6 Annex 1

2.2 Compliance Requirements for UK/4.55

IMO Resolutions	International Testing Standards	
IMO Res. A.694(17) IMO Res. MSC.246(83) ITU-R M.1371-5 (2014)	IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008)	Maritime navigation and radiocommunication equipment and systems – General requirements
	IEC 61097-14 (2010)	Global maritime distress and safety system (GMDSS) – Part 14: AIS search and rescue transmitter (AIS-SART)

3 Technical Documentation

3.1 Declaration of Conformity

Declaration of Conformity – em-trak SART 100 v1 Dated 2022-08-31

3.2 User Guide

Mercury Manual v2 Modified 2012-11-05
201-0369 SART100 manual cover v3 Modified 2016-05-20

3.3 Test Reports

3.3.1 IEC 60945 (2002) incl. IEC 60945 Corrigendum 1 (2008)

75917539 Report 06 Issue 1 Dated 2012-09-11
75917539 Report 07 Issue 1 Dated 2012-10-17
75917539 Report 09 Issue 2 Dated 2012-11-23
B9552 Dated 2012-03-02
4121 Dated 2012-03-22
Waiver oil resistance v2 Dated 2018-02-15

3.3.2 IEC 61097-14 (2010)

75917539 Report 01 Issue 1 Dated 2012-09-03
75917539 Report 05 Issue 1 Dated 2012-11-06
75917539 Report 08 Issue 1 Dated 2012-10-19
75917539 Report 09 Issue 2 Dated 2012-11-23
BSH/46121/4142383/12 Dated 2012-11-23
EFPS Statement Dated 2018-02-15

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3.4 Build Status

3.4.1 Hardware

Overall Build Level: Revision 3

Circuit Diagram: 011-0018 - P205 Mercury Schematic v3

Parts List: 5b 409-0002 Mercury BOM Oct 2012

Dated

2012-10-10

Dated

2012-10-18

3.4.2 Software ^{Note 2}

Bootloader: 070100.01.02.00

Application: 070200.01.04.00

3.5 Notes

Note 1 This approval supports the use of battery type: Varta CR2/3AH.

Note 2 This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the TÜV SÜD Testing and Certification Regulations.

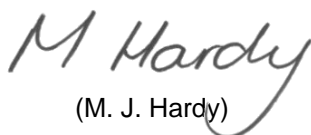
4 Conditions of Validity

This certificate ceases to be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with TUV SUD BABT or a person appointed by TUV SUD BABT to perform that role.

Should the specified regulations (international conventions and the relevant resolutions and circulars of the IMO) or standards be amended and enforced through MSN 1874 during the validity of this certificate, the product(s) is/are to be reapproved prior to it/them being placed on the market or onboard vessels to which the amended regulations or standards apply.

The Mark of Conformity 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, E, or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body.

Signature:


(M. J. Hardy)

Date:

01/09/2022

On behalf of TUV SUD BABT UNLIMITED