

Marine Equipment Directive EC Type Examination Module B Certificate

This is to certify that TÜV SÜD DANMARK ApS did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Marine Equipment Directive (2014/90/EU) requirements, under the following Implementing Regulation for the listed types of equipment

Implementing Regulation	(EU)2020/1170
Certificate Holder and Manufacturer	em-trak Marine Electronics Ltd. Wireless House First Avenue Westfield Industrial Estate Midsomer Norton Bath, BA3 4BS United Kingdom
EC Representative	SRT Marine Systems SNCF Station 14 rue de Dunkerque 75010 Paris France
Product(s)	A200 (425-0013)
Product Sector	Navigation Equipment
Product Type	MED/4.32 Universal automatic identification system equipment (AIS)

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

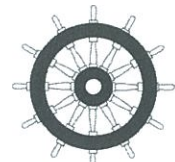


Valid from: 18 August 2021

(Tom Twynam)

Expiry Date: 14 June 2026

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 BAAT@tuvsud.com



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ZERTIFIKAT ◆ CERTIFICATE ◆ 認證書 ◆ CERTIFICADO ◆ CERTIFICAT

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1 Equipment Description

Marine AIS Class A Transceiver

1.1 Models

Model	Description
425-0013	A200 AIS Class A Transceiver

1.2 Software ^{Note 1}

Identity	Description
110200.02	AIS modem software
110401.02	MKD software

2 Assessed Requirements

2.1 Implementing Regulation (EU)2020/1170

2.2 Compliance Requirements for MED/4.32

IMO Resolutions	International Testing Standards	
IMO Res. A.694(17)	IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)	Maritime navigation and radiocommunication equipment and systems — General requirements
	IEC 61162-1 (2016)	Maritime navigation and radiocommunication equipment and systems — Digital interfaces Part 1: Single talker and multiple listeners
	IEC 61162-2 (1998)	Maritime navigation and radiocommunication equipment and systems — Digital interfaces Part 2: Single talker and multiple listeners, high-speed transmission
	IEC 61162-3 (2008) + A2 (2014)	Maritime navigation and radiocommunication equipment and systems — Digital interfaces Part 3: Serial data instrument network
IMO Res. MSC.74(69) ITU-R M.1371-5 (2014)	IEC 61993-2 (2018)	Maritime navigation and radiocommunication equipment and systems — Automatic Identification System (AIS) Part 2: Class A shipborne equipment of the universal automatic identification system (AIS)
IMO Res. MSC.191(79)	IEC 62288 (2014)	Maritime navigation and radiocommunication equipment and systems — Presentation of navigation-related information on shipborne navigational displays
IMO Res. MSC.302(87)	IEC 62923-1 (2018)	Maritime navigation and radiocommunication equipment and systems — Bridge alert management Part 1: Operational and performance requirements, methods of testing and required test results
	IEC 62923-2 (2018)	Maritime navigation and radiocommunication equipment and systems — Bridge alert management Part 2: Alert and cluster identifiers and other additional features

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3 Technical Documentation

3.1 Declaration of Conformity

em-trak A200 Declaration of Conformity Modified 2021-06-24

3.2 User Guide

em-trak A200 Installation and Operation Manual, Part No. 201-0687 Version 7

3.3 Test Reports

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

75929063 Report 09 Issue 1	Issued	2016-04-05
APO-2854	Issued	2016-03-30
15R174 CR	Issued	2016-01-21
75929063 Report 02 Issue 1	Issued	2015-06-03
5960	Issued	2015-05-19
TRA-024860-43-00A	Issued	2015-03-17

3.3.2 IEC 61162 series

Analysis of IEC61162-1 Ed 5.0 Issue 1	Issued	2019-06-03
Exhibit 24 - NMEA 2000 information	Issued	2016-06-06
BSH/4543/001/4322830/15-1	Issued	2016-03-07

3.3.3 IEC 61993-2 (2018)

BSH/4543/001/4322830/15-1	Issued	2016-03-07
75929063 Report 05 Issue 1	Issued	2015-12-16
75929063 Report 06 Issue 1	Issued	2015-12-16
75929063 Report 07 Issue 1	Issued	2015-12-16
BSH/4542/001/4112945/15	Issued	2015-09-21
75952075 Report 01 Issue 01	Issued	2021-06-07
4E11639 Issue 2	Issued	2021-07-07

3.3.4 IEC 62288 (2014)

75929063 Report 08	Issued	2016-04-05
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3.3.5 IEC 62923-1 (2018) & IEC 62923-2 (2018)

BSH/454.AIS-A/SRT Apollo/1	Issued	2021-06-10
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3.4 Build Status

3.4.1 Hardware

AIS modem PCA hardware version	6.0		
MKD PCA hardware version	6.0		
Apollo Main PCA, Drawing No. 011-0109 Rev 2.6	Issued		2021-05-12
Apollo MKD Drawing No. 011-0070 Rev 6	Issued		2018-10-25
Apollo Junction Box, Drawing No. 011-0077 Rev 4	Issued		2015-06-22
Apollo SD Card PCB, Drawing No. 011-0083 Rev 2	Issued		2014-10-20

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3.5 Notes

- Note 1 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.
- Note 2 Enabling additional features may invalidate compliance with the Marine Equipment Directive. The manufacturer should be consulted before enabling any additional features.
- Note 3 IEC61162-3 (2008) + A2 (2014) Annex A contains details of installation documentation and validation.

4 U.S. Coast Guard Number

This product has been assigned U.S. Coast Guard Module B number

165.155/EC2443

To note type approval to Module B only as it pertains to obtaining US Coastguard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 18th, 2019

5 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 TÜV SÜD DANMARK ApS or a person appointed by TÜV SÜD DANMARK ApS to perform that role.

Should the specified regulations (internal conventions and the relevant resolutions and circulars of the IMO) or standards be amended and enforced through an Implementing Regulation 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 Annex B of the directive is fully complied with and controlled by a written inspection agreement with a notified body.

Signature:

A handwritten signature in blue ink that reads 'T. J. Twynam'.

(Thomas J. Twynam)

Date:

2021-08-18

On behalf of TÜV SÜD DANMARK ApS