DANAK
PROD Reg.No. 7035
Member of EA MLA

TÜV SÜD
Danmark

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)2022/1157**
Certificate Holder and Manufacturer	**AMI Marine Ltd** **Unit 9** **Crosshouse Centre** **Crosshouse Road** **Southampton** **SO14 5GZ**
EC Representative	**Baier Marine CME Ltd** **59 Agios Atahnasios Avenue** **Office 101** **4102 Limassol** **Cyprus**
Product(s)	**SMIDS Pro**
Product Sector	**Navigation Equipment**
Product Type	**MED/4.7 SDME Speed and distance measuring equipment (SDME)**

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

T. J. Twynam

Valid from: 16 March 2023 (Tom Twynam) Expiry Date: 15 March 2028

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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TÜV SÜD DANMARK ApS • Strandvejen 125 • 2900 Hellerup • Denmark

Danmark

1 Equipment Description

Satellite-based speed and distance measuring device.

1.1 Models

Model
SMIDS Pro

1.1.1 System Components

Model	Description
MEU-0021	Main Electronic Unit (MEU)
DSP-0032	Main Display
ANT-0004	GNSS Antenna
INT-0048	Dual Sensor Interface Unit (Dual)
INT-0049	Single Sensor Interface Unit
PSU-0014	Uninterruptible Power Supply
MEU-0021	Main Electronic Unit (MEU)

1.1.2 Optional Components

Model	Description
DSP-0033	Internal Remote Display

2 Assessed Requirements

2.1 Implementing Regulation (EU)2022/1157

2.2 Compliance Requirements for MED/4.7 Note 1

IMO Resolutions	International Testing Standards	
IMO Resolution A.824(19)	IEC 61023:2007	Marine speed and distance measuring equipment (SDME)
IMO Resolution MSC.112(73).	IEC 61108-1(2003)	Global navigation satellite systems (GNSS) — Part 1: Global positioning system (GPS) — Receiver equipment — Performance standards, methods of testing and required test results
IMO Resolution MSC.191(79) IMO Resolution MSC.302(87)	IEC 62288:2014	Maritime navigation and radiocommunication equipment and systems — Presentation of navigation-related information on shipborne navigational displays
IMO Resolution A694(17)	IEC 60945:2002 inc. 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
	IEC 61162-2:1998	Maritime navigation and radiocommunication equipment and systems —Digital interfaces Part 2 High Speed interface

IMO Resolutions	International Testing Standards	
IMO Resolution 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

3 Technical Documentation

3.1 Declaration of Conformity

Declaration of Conformity AMI-SMIDS Pro-DoC-10	Modified	2022-10-04

3.2 User Guide

SMIDS Pro Installation Manual Issue 01	Issued	2022-10-10
SMIDS Pro System Manual Issue 01	Issued	2022-10-10

3.3 Test Reports

3.3.1 IEC 60945:2002 inc. Corr.1 (2008)

75950393-01 Issue 01	Issued	2021-04-29
75950393-02 Issue 01	Issued	2021-07-22
75925015 Report 01 Issue 2	Issued	2014-05-29
75925015 Report 02 Issue 1	Issued	2014-10-02
75953524 Report 02 Issue 01	Issued	2023-03-15
Corrosion Statement	Issued	2022-12-22
Protection against dangerous voltages Statement	Issued	2022-12-22

3.3.2 IEC 61023 (2007)

75950393 Report 08 Issue 01	Issued	2022-03-16

3.3.3 IEC 61108-1(2003)

75950393 Report 06 Issue 01	Issued	2022-04-13
BSH/454.GNSS/TUVSUDLtd/7	Issued	2021-11-25
75953524 Report 02 Issue 01	Issued	2023-03-15

3.3.4 IEC 62288 (2014)

75950393 Report 04 Issue 01	Issued	2022-02-04

3.3.5 IEC 61162 Series

75950393 Report 05 Issue 01	Issued	2022-03-10
75950393 Report 07 Issue 01	Issued	2022-03-10

3.3.6 IEC 62923-1 (2018) & IEC 62923-2 (2018) Note 2

75950393 Report 03 Issue 01	Issued	2022-02-04

3.4 Build Status

3.4.1 Hardware

Circuit diagrams SMIDS Pro Main PCB - Schematic_V1_2	Dated	2022-08-16
Circuit diagrams SMIDS Pro Sensor Board PCB - Schematic	Dated	2022-01-27
PCB layout SMIDS Pro Main PCB- LayoutV1_2	Dated	2022-08-16
PCB layout SMIDS Pro Sensor Board – PCB	Dated	2022-08-16
Parts list(s) SMIDS Pro Main PCB v1.2 Rev02	Dated	2022-08-16
Parts list(s) SMIDS Pro Sensor_board v1.2	Dated	2022-08-16

3.4.2 Software Note 3

SMIDS Pro Initial Release Version	Version 1.3.5.12
Firmware Version SMIDS Pro Main PCB	FW025_V0_3.hex SMIDS_Pro_V1_0.pdb

3.5 Notes

Note 1 (EU)2022/1157 gives a last placing on board date of 01/07/2025 for equipment approved against the test standards listed above. See Conditions of Validity..

Note 2 The SMIDS Pro meets the requirements of IEC 62923-1 for EUT function type P.

Note 3 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 U.S. Coast Guard Number

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

165.105/EC2443 (SDME)

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”, Decision No. 1/2018 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 type of 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.

During the period of validity of this certificate the applicable regulations (international conventions and relevant resolutions and circulars of the IMO) and testing standards of the Commission Implementing Regulation may change, therefore the product conformity may need to be re-assessed by TÜV SÜD DANMARK ApS.

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 the directive is fully complied with and controlled by a written inspection agreement with a notified body.

Signature: T. J. Twynam Date: 2023-03-16

(Thomas J. Twynam)

On behalf of TÜV SÜD DANMARK ApS