

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	McMurdo Limited, Holbrook Court, E1 Cumberland Business Centre, Northumberland Road, Southsea, PO15 1DS, United Kingdom	
EC Representative	Netwave Systems BV Blauw-Roodlaan 100 2718 SJ, Zoetermeer, The Netherlands	
Product(s)	Z701 McMurdo Smartfind G8 AIS Z701 Kannad Safe PRO AIS Z702 McMurdo Smartfind G8 Z702 Kannad Safe PRO	Z704 McMurdo Smartfind E8 Z704 Kannad Safe SAILOR 4065 EPIRB SAILOR 4065 EPIRB GNSS
Product Sector	Radiocommunications Equipment	
Product Type	MED/5.6 406 MHz EPIRB (COSPAS-SARSAT)	

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

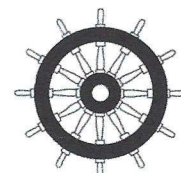
Tom Twynam

Valid from: 11 October 2022

(Tom Twynam)

Expiry Date: 01 July 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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Danmark

Annex to Marine Equipment Directive Module B Type Examination Certificate

1 Equipment Description

406 MHz Emergency Positioning Indicating Radio Beacon (EPIRB) Equipment (Manual Deployment) with optional internal GNSS and AIS.

1.1 Models

Model	
Z701 McMurdo Smartfind G8 AIS Notes 1, 2, 3, 4, 5, 6	Z702 Kannad Safe PRO Notes 1, 2, 3, 5, 6
Z701 Kannad Safe PRO AIS Notes 1, 2, 3, 4, 5, 6	Z704 McMurdo Smartfind E8 Notes 1, 2, 3, 6
Z702 McMurdo Smartfind G8 Notes 1, 2, 3, 5, 6	Z704 Kannad Safe Notes 1, 2, 3, 6
SAILOR 4065 EPIRB Notes 1, 2, 3, 5	SAILOR 4065 EPIRB GNSS Notes 1, 2, 3, 4, 5

Note: SAILOR is a trademark of Thrane & Thrane A/S, Lundtoftegårdsvej 93D, 2800 Kongens Lyngby, Denmark and is used on these products with their permission.

2 Assessed Requirements

2.1 Implementing Regulation (EU)2022/1157

2.2 Compliance Requirements for MED/5.6 ^{Note 8}

IMO Resolutions	International Testing Standards	
IMO Res. A.694(17)	IEC 60945 (2002) inc Corr.1	General Requirements for Marine Navigation Equipment (Inc. Corr1:2008)
IMO Res A.810(19) as amended by: IMO Res.MSC.56(66) & IMO Res.MSC.120(74) IMO Res MSC/Circ 862 IMO Res A.696(17) IMO Res A.662(16) ITU-R M.633-4 (12/10) ITU-R M.690-3 (03/15)	IEC 61097-2 (2008)	Global maritime distress and safety system (GMDSS) - Part 2: COSPAS-SARSAT EPIRB - Satellite emergency position indicating radio beacon operating on 406 MHz

3 Technical Documentation

3.1 Declaration of Conformity

DOC-5000-Z7-01

Dated

2022-10-04

3.2 User Guide

Smartfind G8 AIS, Smartfind G8, Smartfind E8 EPIRB-AIS User Manual, 23-024-EN-002.1
Kannad Marine Safe Pro AIS, Safe Pro, Safe EPIRB-AIS User Manual, 23-040-EN-002.1
SAILOR 4065 EPIRB/GNSS User Manual, 98-162215-B

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3.3 Test Reports

3.3.1 IEC 61097-2 (2008)

BSH/4542/001/4143066/17	Dated	2017-07-13
75931946 Report 07 Issue 1	Dated	2017-10-26
75931946 Report 08 Issue 1	Dated	2017-10-26
75931946 Report 01 Issue 2	Dated	2017-04-13
75931946 Report 05 Issue 2	Dated	2018-02-23
75931946 Report 04 Issue 5	Dated	2018-02-02
OC-0615-01 Issue 1	Dated	2017-07-27
7191166085-CHM17-CCK	Dated	2017-07-27
103143189LHD-001	Dated	2017-08-16
102921912LHD-001b	Dated	2017-05-09
75931946 Report 03 Issue 04	Dated	2018-02-02

3.3.2 IEC 60945 (2002) inc. Corr.1

75931946 Report 07 Issue 1	Dated	2017-10-26
75931946 Report 06 Issue 1	Dated	2017-10-31

3.4 Build Status

3.4.1 Hardware

Overall Build Level 23-500-001B Issue A

Circuit Diagrams:

MED-Z701 Exhibit 05 - Circuit Diagram.pdf	Dated	2017-10-03
MED-Z702 Exhibit 05 - Circuit Diagram.pdf	Dated	2017-03-08
MED-Z704 Exhibit 05 - Circuit Diagram.pdf	Dated	2017-03-08

Parts Lists:

MED-Z701 Exhibit 07 – BOM.pdf	Dated	2017-10-03
MED-Z702 Exhibit 07 – BOM.pdf	Dated	2018-03-08
MED-Z704 Exhibit 07 – BOM.pdf	Dated	2018-03-08

3.4.2 Software^{Note 7}

V23-507Z Issue A

3.5 Notes

- Note 1 These units are tested and assessed to Class 2 temperature requirements.
- Note 2 These units can be supplied together with a manual release bracket.
- Note 3 These units can be supplied together with an auto-release housing.
- Note 4 These units are equipped with AIS functionality operating at 162 MHz.
- Note 5 These units are additionally equipped with GNSS receiver and long message capability for precision position location.
- Note 6 Marine COSPAS-SARSAT 406MHz EPIRBs form a distress alerting component of the Global Maritime Distress & Safety System (GMDSS). These beacons have been granted COSPAS-SARSAT Type Approval Certification; TAC Report No.289, dated 20 July 2017 (Z701); TAC Report No.289-2, dated 01 March 2018 (Z702 and SAILOR 4065 EPIRB GNSS); TAC Report No.289-3, dated 06 March 2018 (Z704 and SAILOR 4065 EPIRB)
- Note 7 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 8 (EU)2022/1157 gives a last placing on board date of 01/07/2023 for equipment approved against the test standards listed above. See Conditions of Validity.

Annex to Marine Equipment Directive Module B Type Examination Certificate



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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 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: *T. J. Twynam*
(Thomas J. Twynam)

Date: 2022-10-11

On behalf of TÜV SÜD DANMARK ApS