

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	Ocean Signal Limited Unit 4 Ocivan Way Margate Kent, CT9 4NN United Kingdom
EC Representative	Mr Kris Nieuwenhuis Ocean Signal Limited Melkbon 39 1602 JD Enkhuizen The Netherlands
Product(s)	Pathfinder Pro
Product Sector	Navigation Equipment
Product Type	MED/4.18 Search and rescue locating devices (SRLD): 9GHz SAR Transponder (SART)

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

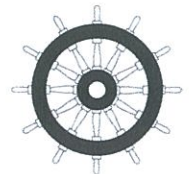
Valid from: 01 January 2021

(Signature)



Expiry Date: 21 September 2025

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@TUV-SUD.co.uk



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

Annex to Marine Equipment Directive Module B Type Examination Certificate



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1 Equipment Description

Search and rescue locating devices (SRLD): 9 GHz SAR transponder (SART)

1.1 Models

Model
Pathfinder Pro

1.2 Product Components

Identity	Description
Pathfinder Pro	SART Main Unit
2920	Battery Unit (Li/FeS2)

2 Assessed Requirements

2.1 Implementing Regulation (EU)2020/1170

2.2 Compliance Requirements for MED/4.18

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
IMO Res. A.530(13) IMO Res. A.802(19) ITU-R M.628-5	IEC 61097-1 (2007)	Global maritime distress and safety system (GMDSS) — Part 1: Radar transponder — Marine search and rescue (SART)

3 Technical Documentation

3.1 Declaration of Conformity

Pathfinder Pro Declaration of Conformity Denmark Dated 2021-01-01

3.2 User Guide

Pathfinder Pro User Manual Modified 2020-09-17

3.3 Test Reports

10/591 Issued 2010-09-23

3.4 Build Status

3.4.1 Hardware

SART Circuit Diagram 910S-00156 Issue 01.00 Dated 2010-10-05
 General Assembly 900S-00541 Issue 03.00 Dated 2012-01-06
 PCB Assembly 800S-00156 Issue 02.00 Dated 2013-02-06

3.4.2 Software

Firmware 500S-00740 Issue 01.00

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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 In accordance with IEC 61097-1, Clause 6.7, it has been determined that the Pathfinder Pro operates correctly when interrogated at a distance of up to at least 7.1 nautical miles by a navigation radar complying with IMO Resolution A.477(XII) and A.222(VII) with an antenna height of 15 meters.

4 Additional Information

The products listed on this certificate were originally assessed and certified by TÜV SÜD BABT UNLIMITED under Notified Body number 0168, Certificate number BABT-MED001120 Issue 02.

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: Michelle Hardy

Date: 15th January 2021

Print Name: MICHELLE HARDY

On behalf of TÜV SÜD DANMARK ApS