

TYPE-EXAMINATION CERTIFICATE

1. Type-examination Certificate (Module A)
2. Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)



3. Type examination certificate Nr **ITS16ATEX201047 R.0**

4. **Product:** M100X Man Overboard Device

5. **Manufacturer:** Ocean Signal Ltd

Applicant: Ocean Signal Ltd

6. **Address:** Unit 4 Ocivan Way, Margate, CT9 4NN,
United Kingdom

Address: Unit 4 Ocivan Way, Margate, CT9
4NN, United Kingdom

7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.

8. INTERTEK ITALIA S.p.A., certifies that the equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. G102250290 Issue: 1 Dated: June 2016, G103484596LHD-001 Issue 1 Dated June 2018, 103910278LHD-001 Issue 1 Dated October 2019, 104396574LHD-001 Issue 1 Dated August 2020 and 105135431LHD-001 Dated 4th August 2022.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018 and EN 60079-11:2012 except in respect of those requirements referred to at item 16 of the Schedule

10. If the sign X is placed after the certificate number, it indicates that the product is subject to Special Conditions for Safe Use specified in the schedule to this certificate.

11. This Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12. The marking of the product shall include the following:



II 3 G Ex ic IIB T4 Gc
Tamb: -20°C to +55°C

Certificate issue date

15th September 2022

Mark Newman

Certification Officer
Intertek Italia S.p.A.

This certificate has been issued by Intertek Italia S.p.A. on transfer from Intertek Testing & Certification Ltd. using the same issued original certificate number.



This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Intertek Italia S.p.A. Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy

LFT-EMEA-IT-ATEX-OP-23p (6 April 2022)



SCHEDULE

TYPE EXAMINATION CERTIFICATE NUMBER: ITS16ATEX201047 R.0

13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The Ocean Signal M100X is an intrinsically safe emergency location beacon designed to be affixed to an individual's lifejacket where when activated will lock onto its GPS location and transmit this signal through two transmitters to nearby search and rescue vessels.

The two transmitters in the M100X are:

An AIS (Automatic Identification System) transmitter which operates on two frequencies, 161.975MHz & 162.025MHz. Each message transmission contains the GPS position.

A homing signal which transmits on 121.5MHz. This is amplitude modulated with a swept audio tone and operates continuously.

The equipment consists of a plastic enclosure housing the battery pack and PCBs, the enclosure provides the degree of protection minimum IP67. The equipment is attached to the lifejacket using one of the supplied fixtures.

Visual indication for the user that the equipment is active is provided by a tri colour LED on the front of the unit.

14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
*Label: M100X Ex Approvals	163S-02093	01.10	15/07/22
Battery Assembly MSLD	901S-01926	01.02	30/07/20
*GA MSLD Ex	903S-02067	02.00	15/07/22
*Case Front Assembly MSLD Ex	903S-02068	02.00	15/07/22
M100X MSLD Safety Data (Ocean Signal) (2 Sheets)	912S-02081	01.10	13/08/2020
Schematic MSLD M100X (7 Sheets)	910S-01908	05.00	30/07/20
PCB Assy MSLD M100X (4 Sheets)	800S-01908	05.00	30/07/20
BOM – PCB Assy: Professional MOB M100X (3 Sheets)	800S-01908	05.00	30/07/20
M100X MSLD Safety Data (Viking) (2 Sheets)	912S-02259	01.10	13/08/2020

*Note: An * is included before the title of documents that are new or revised.*

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.



SCHEDULE

TYPE EXAMINATION CERTIFICATE NUMBER: ITS16ATEX201047 R.0

15. SPECIFIC CONDITIONS OF USE

None.

16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant Essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 105135431LHD-001 dated 4th August 2022.

17. ROUTINE (FACTORY) TESTS

None.

18. DETAIL OF CERTIFICATE CHANGES

R.0 (15th September 2022):

- Initial release by Intertek Italia S.p.A. NB 2575 based on the assessment performed on July to August 2022 and on the certificate legal ownership transferred from Intertek Testing & Certification Ltd. (NB 0359); the same issued original certificate number is used.
- Addition of 3 new plastic materials for the M100X housing. Controlled documents 903S-02067 and 903S-02068 have been updated to include the alternative material information.