

# Type Examination Certificate



1. **TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**
3. **Type Examination Certificate Number: ITS16ATEX201047 Issue 0**
4. **Product: M100X – Man Overboard Device**
5. **Manufacturer: Ocean Signal Ltd**
6. **Address: Unit 4  
Ocivan Way  
Margate  
CT9 4NN  
United Kingdom**
7. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. Intertek Testing and Certification Limited, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of the products intended for use in potentially explosive atmospheres given in Annex II to the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.  
  
The examination and test results are recorded in confidential Intertek Report Ref G102250290 Issue 1 Dated June 2016.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012 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 equipment or protective system 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 of the specified product and not to specific items subsequently manufactured.
12. The marking of the product shall include the following:-



II 3G Ex ic IIB T4 Gc

-20°C ≤ Ta ≤ +55°C

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**V K Varma**  
**Certification Officer**  
**17<sup>th</sup> June 2016**



## SCHEDULE

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### 13. Description of 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 Ocean Signal M100X can also be rebranded under 'Viking Life-Saving Equipment', with the Model No. 1063354.

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. Report Number

Intertek Report Ref: G102250290 Issue: 1 Dated: June 2016

### 15. Conditions of Certification

(a). Specific Conditions of Safe Use

- None

(b). Conditions of Manufacture

- None

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### 16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report Ref G102250290 Issue: 1 Dated: June 2016.

### 17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Label: M100X Ex Approvals	163S-02093	01.01	17/6/16
Battery Assembly MSLD	901S-01926	01.00	23/3/16
GA MSLD Ex	903S-02067	01.00	4/5/16
Case Front Assembly MSLD Ex	903S-02068	01.00	9/2/16
M100X MSLD Safety Data (Ocean Signal) (2 Sheets)	912S-02081	01.00	17/06/2016
Schematic MSLD M100X (7 Sheets)	910S-01908	02.00	04/05/16
PCB Assy MSLD M100X (4 Sheets)	800S-01908	02.00	31/3/16
BOM – PCB Assy: Professional MOB M100X (2 Sheets)	800S-01908	02.00	10/3/16
M100X MSLD Safety Data (Viking) (2 Sheets)	912S-02259	01.00	17/06/2016

This Certificate is the property of Intertek Testing and Certification Ltd and is subject to Intertek Testing and Certification's Conditions for Granting Certification

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