
Simrad PX MultiSensor



Sensor safety data sheet

Identification

The Simrad PX MultiSensor is an multifunction acoustic subsea sensor designed for use with the Simrad PI catch monitoring systems. The sensor does not contain any hazardous substances. The sensor is equipped with a custom made 58 Wh Li-Ion battery.



- **Product name:** Simrad PX MultiSensor
- **Manufacturer:** Kongsberg Maritime AS / Simrad
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- **Website:** <http://www.simrad.com>

Note

The Simrad PX MultiSensor is provided as a solid and sealed unit. The sensor shall not be opened by unauthorized personnel.

For safety information about the battery and the individual cells used in the internal battery pack, see the relevant safety data sheets. They can be obtained from <http://www.simrad.com/px>.

Hazards identification

The Simrad PX MultiSensor is not provided with any hazards identification.

Composition

The Simrad PX MultiSensor is a solid, manufactured article. Exposure to hazardous ingredients is not expected with normal use.

First aid measures

Exposure to hazardous ingredients is not expected with normal use. In case of injury, this will only be caused by

the sensor's physical weight. The sensor will release toxic fumes if burned or exposed to fire. If subjected to gas from a burning sensor, remove source of contamination or move victim to fresh air. Obtain medical advice.

Fire fighting measures

The sensor is designed to withstand damage to the internal battery pack. Nonflammable material are used. In case of fire, move sensor from fire area if you can do it without risk. Extreme mechanical abuse to the sensor may result in ruptured seal, and expose the internal battery. In this case, observe the safety data sheets for the internal battery and the individual cells.

Accidental release measures

During normal operation, accidental release measures are not applicable. Extreme mechanical abuse to the sensor may result in ruptured seal, and expose the internal battery. In this case, observe the safety data sheets for the internal battery and the individual cells.

Handling and storage

Store the sensor in a dry location.

Exposure controls and personal protection

Airborne exposures to hazardous substances are not expected when product is used for its intended purpose. No protection (respirator, skin and/or eye) are required.

Physical and chemical properties

The sensor is solid with a firm and hard appearance. No chemicals are exposed during normal use and transportation.

Stability and reactivity

The sensor is stable. No specific handling requirements apply. The sensor will release toxic fumes if burned or exposed to fire. Extreme mechanical abuse to the sensor may result in ruptured seal, and expose the internal battery. In this case, observe the safety data sheets for the internal battery and the individual cells.

Toxicological information

Acute oral, dermal and inhalation toxicity data are not available for this article. Risk of irritation occurs only if the sensors is abused to the point of breaking the seal and opening it. If this occurs, observe the safety data sheets for the internal battery and the individual cells.

Ecological information

The sensor is not biodegradable.

Disposal considerations

Dispose of in accordance with local, state and federal laws and regulations for electro-mechanical devices. Dispose of the internal battery pack separately, observe the safety data sheets for the internal battery and the individual cells.

Transport information

• Shipment of single sensor

Each Simrad PX MultiSensor unit is transported as a closed and sealed unit, and shall not be opened by unauthorized personnel.

As a single unit containing a battery with less than 100 Wh capacity, the transportation is made according to **ICAO/IATA packing instructions 967 Section II; Cells or batteries installed in equipment.**

The Simrad PX MultiSensor unit must be shipped in accordance with the prevailing national regulations; **UN No. 3481, Miscellaneous (Lithium Ion batteries included in equipment)**

• Shipment of sensor and battery

Each Simrad PX MultiSensor unit is transported as a closed and sealed unit, and shall not be opened by unauthorized personnel.

As a single unit containing a battery with less than 100 Wh capacity, and with one or two additional batteries included, the transportation is made according to **ICAO/IATA packing instructions 966 Section II; Cells or batteries contained in a package with associated electronic equipment.**

The Simrad PX MultiSensor unit with extra batteries must be shipped in accordance with the prevailing national regulations; **UN No. 3481, Miscellaneous (Lithium Ion batteries included in equipment)**

• Shipment of separate battery

Separate sensor batteries conform to **ICAO/IATA packing instructions 965 Section II; Cells or battery in a package, without electronic equipment.**

If the battery is shipped separately, the following prevailing national regulations apply: **UN No. 3480, Miscellaneous (Lithium Ion battery).**

For all shipments – sensor and separate batteries – use lithium battery handling label as specified in the additional requirements of Section II of packing instructions 965, 966 and 967.

Transport identification codes:

- **Aircraft:** IATA DGR
- **Sea transport:** IMDG codes
- **Railway:** RID
- **Road transport:** ADR

Note _____

Damaged sensors that are returned to the manufacturer for repair shall be transported without batteries. Damages or spent batteries that have been recalled by the manufacturer for safety reasons shall not be transported by air.

Battery specifications

Regulatory requirements

- **Manufacturer's part number:** 369215
- **Certification:** UN 38.3
- **Class 9 exception:** The battery is excepted from Class 9

Basic specifications

- **Cell type:** Li-Ion (LiFePO₄)
- **Cell size:** 18650
- **Nominal voltage:** 13,2 Vdc
- **Nominal capacity:** 4400 mAh / 58 Wh
- **Lifetime expectancy:** ≥ 1000 cycles at 0.5C charge/discharge rate (C>70% of minimum capacity)
- **Total mass of lithium:** 5.3 g
- **Cell configuration:** 4S 4P

For additional specifications, refer to document 373084 *Battery safety data sheet and specifications*. It can be obtained from <http://www.simrad.com/px>.