

Simrad PX MultiSensor Mk2

SIMRAD

Sensor safety data sheet and specifications

SECTION 1: Identification

The PX MultiSensor Mk2 is a wireless multifunction catch monitoring sensor. The sensor does not contain any hazardous substances.

The PX MultiSensor Mk2 is equipped with a custom made 58 Wh Li-Ion battery.

- **Product name:** Simrad PX MultiSensor Mk2 sensor
- **Manufacturer:** Kongsberg Maritime AS
- **Address:** Strandpromenaden 50, 3190 Horten, Norway
- **Telephone:** +47 33 03 40 00
- **E-mail address:** simrad.support@simrad.com
- **Website:** <https://www.simrad.com>



The order number, spare part number and measurements for the Simrad PX MultiSensor Mk2 sensor are:

- 419122 / 421180: Standard
- 420642 / 421293: Depth/Temp.
- 420643 / 421294: with 70kHz lid

Note

The sensor is provided as a solid and sealed unit. Do not open if you are not authorized personnel.

For additional information about the cells inside the sealed battery pack, see the safety data sheet provided by the cell manufacturer.

For safety information about the battery and the individual cells used in the internal battery pack, see the relevant safety data sheets. <https://www.simrad.com/px>

SECTION 2: Hazards identification

The sensor is not provided with any hazards identification. It is not classified as dangerous or hazardous with normal use.

SECTION 3: Composition

The sensor is a solid, manufactured article.

Exposure to hazardous ingredients is not expected with normal use.

SECTION 4: First aid measures

Exposure to hazardous ingredients is not expected with normal use. In case of injury, this will be only 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, move the exposed personnel to fresh air and remove the source of contamination. Seek immediate medical attention.

SECTION 5: Firefighting measures

The sensor is designed to withstand damage to the internal battery pack. Nonflammable material is 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.

For safety information about the battery and the individual cells used in the internal battery pack, see the relevant safety data sheets. <https://www.simrad.com/px>

SECTION 6: 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.

For safety information about the battery and the individual cells used in the internal battery pack, see the relevant safety data sheets. <https://www.simrad.com/px>.

SECTION 7: Handling and storage

Do not open, disassemble, crush or burn the sensor. Store in a dry location.

SECTION 8: Exposure control and personal protection

Airborne exposures to hazardous substances are not expected when the battery is used for its intended purpose.

No protection (respirator, skin and/or eye) is then required.

SECTION 9: Physical and chemical properties

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

SECTION 10: 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.

For safety information about the battery and the individual cells used in the internal battery pack, see the relevant safety data sheets. <https://www.simrad.com/px>

SECTION 11: Toxicological information

Acute oral, dermal and inhalation toxicity data are not available for this sensor. Risk of irritation occurs only if the sensor is abused to the point of breaking the container and opening it.

For safety information about the battery and the individual cells used in the internal battery pack, see the relevant safety data sheets. <https://www.simrad.com/px>

SECTION 12: Ecological information

The sensor is not biodegradable.

SECTION 13: Disposal considerations

All disposal of mechanical, electromechanical, electronic and chemical waste - including all types of batteries - must take place according to national and international rules and regulations.

SECTION 14: Transport information

Transportation of the Simrad PX MultiSensor Mk2 must be performed in accordance to rules and regulations stated for transportation of dangerous goods in the applicable countries.

• Shipment of single sensor

Each Simrad PX MultiSensor Mk2 is transported as a closed and sealed unit, and shall not be opened by unauthorized personnel.

As a sensor 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 Mk2 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 Mk2 is transported as a closed and sealed unit, and shall not be opened by unauthorized personnel.

As a single sensor 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 PX MultiSensor Mk2 catch monitoring sensor 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 prevailing national regulations that apply are: **UN No. 3480**, *Miscellaneous (Lithium Ion battery)*.

For all shipments – Simrad PX MultiSensor Mk2 and separate batteries –, use lithium battery handling label as specified in the additional requirement of Section II of packing instructions 965, 966 and 967.

Transport identification codes:

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

Note

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

SECTION 15: Regulatory information

- **Part number:** 421361
- **Certification:** UN 38.3
- **Class 9 exception:** The battery is excepted from Class 9.

Specifications

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 0.5 C *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 440144 Battery safety data sheet. The document can be downloaded from our website <https://www.simrad.com/px>.