

Technical specifications

Communication frequency:	43.5 - 49.5 kHz
Beam width communication element:	60° (-3dB)
Source level communication beam:	195 dB//1uPa
Down, Side, Front frequency:	70 kHz
Beam width Down, Side, Front element:	70° (-3dB)
Source level Down, Side, Front beam:	196dB//1uPa
Range to Vessel:	typical 1500-2500 meters
Maximum Depth:	800 meters
Roll angle measurement:	± 90 degrees (± 2 degrees accuracy)
Pitch angle measurement:	± 90 degrees (± 2 degrees accuracy)

Spread range:	0-600 m
Geometry range:	0-600 m
Height measurement range:	0,7 m - typical 100 m

Update rate:	~15 seconds
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Battery Life:

Two measurements:	110 h
One measurement:	150 h
Charging time:	3 hours
Dimensions (mm):	350 H x 155 W
Weight in Air:	9 kg
Weight in Water:	3 kg

Future optional functions:

Temperature Measurement Range:	-5° - 30°C
Temperature Accuracy:	± 0.2°C (typical)
Depth Accuracy:	0.1% of full scale (800 m)
Depth Resolution:	0.1 meters

Specification can be altered without prior notification

PX



SIMRAD
PX
SENSOR

Spread + Depth



Spread + Height



Geometry



Depth + Temperature



Dual Spread



Seine Sounder



Pitch & Roll



SIMRAD PX MULTIFUNCTION SENSOR

The Simrad PX is a revolutionary new multifunction sensor easily user programmed to the function desired. At no cost the user can program the sensor to suit the need at the time. The combinations are almost countless and the ease of programming is suitable for onboard work.

SIMRAD PX SENSOR

NEW CHARGING REGIME

The PX sensor is fitted with Simrad's new charging regime. An easy-to-fit plug is fitted in the back of the sensor and polarity mistakes are history. The sensor can, if space is made in the sensor holder, be charged while still mounted in the door holder.

COMMUNICATION

The PX Sensor communicates with the vessel through a high-performance ceramic transducer which ensures a perfect link even in the hardest conditions.

HEIGHT AND RANGE BETWEEN DOORS/WINGS

Depending on its orientation, the side transducer will measure the range between doors, wings or the distance from the sensor to the surface (depth). Optionally, the PX sensor can be equipped with a pressure sensor to measure depth and temperature.

HEIGHT AND RANGE BETWEEN DOORS/WINGS

Depending on its orientation, the lower transducer will measure doors' height to the bottom or the distance between doors or wings. Even mounting the sensor on the head rope, it will measure height on the net and, activating the pitch sensor, the head rope tilt.

GEOMETRY

With the frontal transducer, the PX sensor will communicate with the geometry responders offering essential information to keep the net operating at maximum performance.

PITCH AND ROLL

Trawl doors' function is to open the net, and their performance depends on the proper rigging. With the pitch and roll sensor we can accurately check if they are operating according to the adjustments made by the skipper.

PX MULTIFUNCTION SENSOR

The concept of the Simrad PX multi sensor is to be able to program the sensor to suit your need at the time of use, at no cost. This is possible by using a laptop PC and a programming cable. The sensor can have almost countless combinations of two readings, but to name a few it includes: Pitch and Roll or Spread or Spread and Height or Spread and Depth or SeineSounder or Height or Geometry or Twin Spread. The sensor has the latest battery technology (LiXX) and the battery life is extended dramatically from previous Simrad sensors.

A new "sensor reader" is also available (optional) to be able to read what the sensor is currently programmed as. By being able to program the sensor onboard, the need for a back-up sensor is reduced as it can have most of the functions needed in one body. With the addition of spare sensor lids you can have all the functions available for back-up.

The PX sensor will work with the existing PI50 and PI44 systems, no re-installation of hydrophone or processor is needed.

