

# SS4 CatchSensor

Multifunctional sensor:  
Catch, SuperCatch, Filling indicator, Up/Down,  
Temperature and Rip

Correct & reliable measurements

Robust construction with super plastic  
eliminates the need for repair

5 year warranty

Up to 1 500 h operation time



## SS4 CatchSensor or SuperCatch: CatchSensor, filling indicator or both

*Scanmar SS4 CatchSensor meets all the requirements any fisherman could have.*

### Catch function

The sensors Catch function is activated with the stretch wire in the traditional way, or fast activation of stretch wire (SuperCatch) - important to avoid overfilling.

### Filling Indicator (Angle) function

This function indicates the filling rate using both pitch and roll angle measurements on the cod end.

The Pitch measurements show how the bag gradually fills up to the point where the sensor is mounted.

The Roll angle (twist) shows how the bag twists when it begins to fill and how it gradually corrects itself when it becomes full. The sensor can be programmed for normal or quick updating.

### Up/Down function

The Up /Down function will notify the user when the cod end twists and is being towed upside down.

### Rip function

When using the Rip function the sensor is mounted in the belly of the trawl and will alert the user if detecting any rips or tears in the net to prevent loss of catch and potentially costly damage.

### Construction

The new design with double casting of the electronics provides 100% protection. Scanmar's newly developed super plastic drastically reduces damage to the sensor due to strokes, tension, or dragging along the bottom with a twisted trawl.

### Batteries, Charging & Programming

With new long lasting Lithium-ion batteries, charging is no longer an issue. Most users are able to keep the sensor on the net for the whole trip, and only charge when back from the fishing ground.

Transmission power and FID are easily programmed with the new programming unit/charger, alongside with choosing fast or normal update rate.

The charger has features that can check both battery and sensor status.

# Technical Specification

## MEASUREMENTS & OPTIONS

### Catch

Range	Full / Empty
Mode	Standard / SuperCatch

### Angle

Roll angle	-90° to +90°
Pitch angle	-90° to +90°
ScanFactor	0 to +20°
ScanFactor Pitch	0 to +20°
Accuracy	+/- 1°

### Temperature

Range	-5 to +30 °C
Accuracy	+/- 0.15 °C

### Upside/down

OK / Upside down

### Rip

Net OK / Net ripped

## OPERATION

Mounting positions	Net
Update rate	2.5 to 30 sec
Operation time	300-1500 hours <sup>1</sup>
Maximum depth	1500 m continuously (2300 m for a short period) <sup>2</sup>

## BATTERY

Smart Battery	Li-Ion 10.8V / 7200 mAh
Charging time	Typ. 1.5 hour (QBC-X1)
Battery capacity indicator	5 LEDs

## CONFIGURATION<sup>3</sup>

Channel selection (FID), Type of measurement, Power selection, Catch type and Upside down.

## UPLINK

Frequency range	38.9 – 43.4 kHz
Source level high power	189 dB //1uPa @ 1m
Source level medium power	186 dB //1uPa @ 1m
Source level low power	183 dB //1uPa @ 1m
Beam width	55 deg [- 3dB]
Transducer tilt	20° upward
Range to vessel <sup>4</sup>	Approx. 2500 m (high power)

## WEIGHT

In air	6.1 kg
In water	2.5 kg

## DIMENSIONS

Length	269 mm
Width	209 mm
Height	103 mm

*Note: All specifications are subject to change without prior notice.*

- 1 - Depends on power level, number of transmitting channels, telegram forms and transmitting frequency
- 2 - Operation below 1500 m, may however reduce the reliability and lifetime of the sensor
- 3 - Programmable via PC or battery charger
- 4 - Depends on power levels, acoustic conditions, ship noise, mounting and alignment of sensor and hydrophone