

SENSORS

Grid Sensor

TYPE HC4-GS

Measures the angle of the sorting grid and shows if the water flow through the grid is blocked.



- Used to fish more efficiently with a grid
- Measures the grid's angle, indicating the catch volume
- Shows if the water flow through the grid is blocked, resulting in loss of catch
- Applicable for bottom and pelagic trawls

Grid Sensor

The aim was to fish for shrimp in fields with many small fish, without taking the latter as by-catch. In many countries there are regulations on trawling, and in some areas it is mandatory to use a grid in the cod end.

Use of the GridSensor

The Scanmar GridSensor was developed to show the precise water flow through the grid, and the grid's angle. The angle gives a good indication of the filling in the cod end, and of whether the trawl has twisted.

Water flow

Water flow through the sorting grid is the most important observation. Quite often the grid becomes blocked by skate, seals, sharks, stones and more. In some seasons, big swarms of jellyfish seal the meshes in the cod end and prevent water from flowing out. In these cases it is necessary to end the haul.

Grid angle

Changes to the angle give a good indication of the catch volume at any time, and the logging curve also shows where the influx was greatest.

With shrimp, and fish without a swim bladder, the cod end sinks as it fills up. It is therefore usual to start with an angle above 50 degrees and to finish towing when the angle approaches 37 or 38 degrees.

Technical specifications

Waterflow

Range	0 to 6 knots
Accuracy	± 10% of reading
Resolution	0.1 knots

Angle

Range	-30° to +30°
Accuracy	± 1°

Operation

Update rate	Approx. 25 sec
Max. depth	1200 m
Operation time	Approx. 30 hrs

Battery

Type	NiCd, 2 x 12V / 600 mAh
Charging time	1.5 hour (QBC-05)

Uplink

Frequency range	38.9 – 43.4 kHz
Source level	190 dB // 1uP @ 1m
Beam width	50° (- 3dB)
Range to vessel ¹	Approx. 2500 m

Weight

In air	7.3 kg
In water	2.4 kg

Available accessories and spare parts

Mounting kit	109958
Battery pack	105485 (2 pcs)
Battery charger	QBC-05

