



Fog Signal

Lightweight & Easy to Handle

2 NM (nautical mile) Range

Directional Sound Output

Compression Driver Monitoring

Sound Level Control for Test Mode

Improved Second Generation NAI bus

Compatible with gen. 1 NAI Bus
Controllers

The **SeaMark FS02 Fog Signal** second generation is a directional fog signal designed for offshore wind applications. The system consists of two signal units, each providing a nominal 0.5 NM range individually and an effective 2 NM output range when operated together.

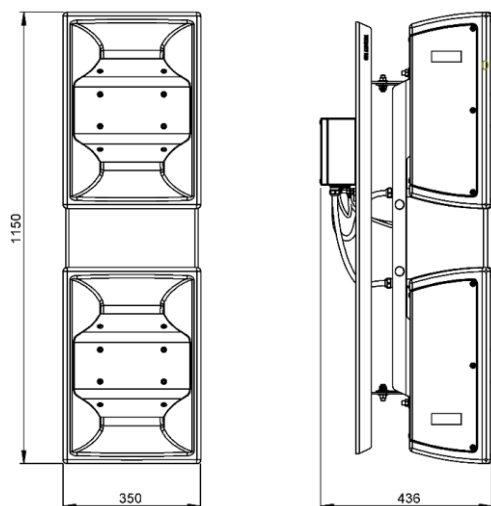
As part of the **SeaMark 2 product family**, the FS02 is designed to reduce operational complexity while supporting long-term reliability. The directional acoustic design concentrates sound output within $\pm 50^\circ$ (-6 dB), reducing energy consumption and minimizing interference from reflected sound waves.

The fog signal can operate as part of a generation 1 or generation 2 NAI system, enabling centralized control, remote monitoring, and diagnostics.

The FS02 complies with IALA G1162
Recommendations*.

* IALA G1162, "The marking of man-made offshore structures"

Dimensions & Weight



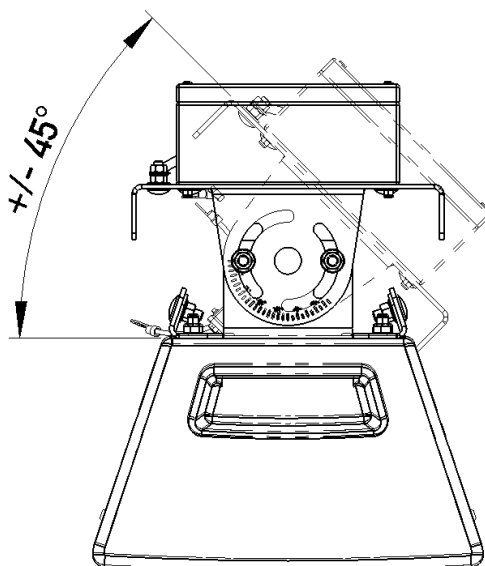
Dimensions (width x height x depth)	350 mm x 1150 mm x 436 mm
Dimensions of each unit FS005 (width x height x depth)	350 mm x 500 mm x 205 mm
Weight including junction box and mounting kit	48.7 kg
Weight of each unit FS005	14.9 kg

Material

Housing	Polyethylene (colour: RAL1023)
Frontal plate, rear wall and mounting kit	Stainless-steel 316 L / 1.4404

Acoustic System

Signal output	134 dB @ 1 m (FS02 unit); 127 dB @ 1 m (FS005 unit)
Output frequency	850 Hz
Nominal range	2 NM (FS02 unit); 0.5 NM (FS005 unit)
Signal output horizontal angle	$\pm 35^\circ$ (-3 dB); $\pm 50^\circ$ (-6 dB);
Classification of energy source radiation	RS3*



Components



	Size	For Cable Diameter	Key Width
EMC Cable Gland	M20 x 1.5	8.0 ... 15.0 mm	24 mm

Electrical Connection

Electrical connection	Spring terminal block, max. 2.5 mm ²
Operating voltage V_{IN}	DC 24.0 V (-25% / +25%)
Power consumption (Peak, V_{IN} = DC 24 V)	54 W



X1 Connector		
1	VPI	Power supply input (Positive)
2	VNI	Power supply input (Negative)
3	DP	NAi data (Positive)
4	DN	NAi data (Negative)
5	VPO	Power supply output (Positive) – to next device
6	VNO	Power supply output (Negative) – to next device
7	DP	NAi data (Positive) – to next device
8	DN	NAi data (Negative) – to next device

Environmental Conditions

Ambient temperature (operation)	-25 °C to 55 °C
Ambient temperature (storage / transport)	-40 °C to 70 °C
Humidity (operation / storage / transport)	95 % r.h. up to 45 °C
Atmospheric pressure (operation / storage / transport)	70 % r.h. for T > 45 °C
Degree of protection (acc. to IEC 60529)	80 kPa to 108 kPa
Impact protection	IP66
Wind zone classification (acc. to IEC 61400-1 Ed. 4)	IK08
Lightning protection zone (acc. to IEC 62305-4:2010)	I

Electrical Safety & Health

Protection class	Class III
Overvoltage protection	Class III
Pollution degree	3

Reliability

MTBF	436.000 h
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Compliance

Electromagnetic Compatibility	EN 61000-6-2:2005 EN 61000-6-4:2007 + A1:2011
Environmental	EN 60945:2002, category "exposed" IEC 61892-1:2019 IEC 61892-3:2019
Product Safety	EN 62368-1:2014 + AC:2015
Mechanical	EN 60945:2002, category "exposed" IEC 61892-1:2019 IEC 61892-3:2019

Ordering Information

Product ID	Details	Part Number	Order
FS02-G2	2 NM Fog Signal	30380510	Contact your Sabik Offshore sales representative for device with specific cable lengths. sales@sabik-offshore.com