BlueTraker

NetSenz

DATA SHEET

Derive more **accurate fishing effort data** than ever before.

NetSenz is a wireless sensor mounted directly on the fishing gear, allowing an FMC to track and monitor fishing activities with this particular gear.

LOCATION, DEPTH, TEMPERATURE, TIME, FISHING GEAR ID

NetSenz sensor transmits precise data back to the FMC, granting them a detailed overview of fishing effort related to the tagged gear.

Moreover, NetSenz has a unique feature not only to detect exact positions and time of start and end of the fishing session but also to record the exact time-depth profile that the gear passed. Depth profile can be accurate to a meter and logged in a minute or even shorter intervals. The data are collected wirelessly with a Wireless Gate (BlueSenz WG) and transferred to FMC by BlueTraker terminal.

NetSenz is part of the **BlueSenz** family of fishing gear sensors

NetSenz is suitable to monitor pelagic and benthic fishing activities and can be attached to various fishing gear: to the **fishing net** (using a fastening plate), on the **headline / headrope / floatline / footrope / leadline** of the fishing net (with two rope clamps), **trawl door / otter board** (using pre-welded screws), **longline**, or even **trap/pot**. Each type of installation is secured using stainless steel security screws with an engraved unique ID to assure the integrity of the sensor on the fishing gear.

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WIRELESS DATA SOLUTIONS

NetSenz Technical Specification

Dimensions & weight

Dimensions (L x W x H): 206 x 127 x 40 mm
Weight: 840 g

Environmental

Operating temp. range: -20°C -> +60°C
Storage temp. range: -25°C -> +70°C
Operating depth: up to 500 m
Maximum depth: 1000 m
Operational lifetime: 5 years* guaranteed

*possibility of remote extension to 7 years

RF

RF band & modulation: 868 MHz WMbus
or: 2.4 GHz / LoRa global ISM band
Max. Transmit. Power: +12 dBm per IEC
Communication range: 200 m in open air guaranteed

Data collected

See boxed text on the right

Installation

On fishing net, headline or footrope (trawl net / gillnet / purse seine), longline, trawl doors and pots

> NetSenz collects complete and precise fishing activity data from fishing-net deployment to fishing-net haulage. These include:
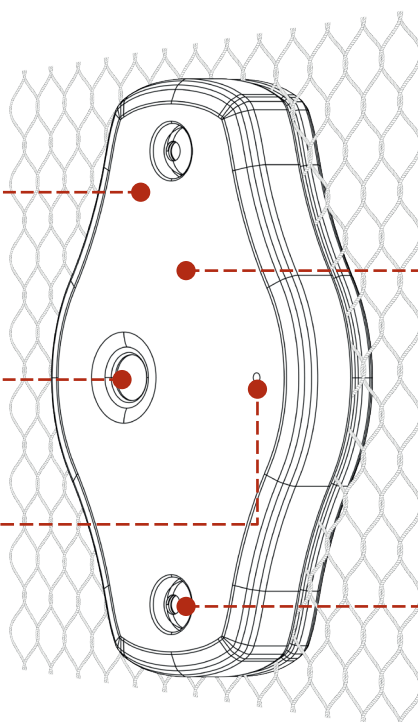> - Fishing Gear ID
> - Total gear immersion time
> - Latitudes and longitudes of a gear-down, gear-up, and all subsurface travel positions
> - Sea water temperature log
> - Immersion depth log
> - Measurements' derived analytics, i.e., maximum depth reached latitude-longitude at UTC time, etc.

Rugged ocean grade plastic housing designed to withstand harsh sea environment
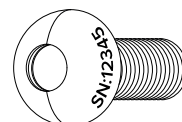
Pressure and temperature sensor port

LED indicator

Electronics sealed with a potting compound thus protected against water and other substances:
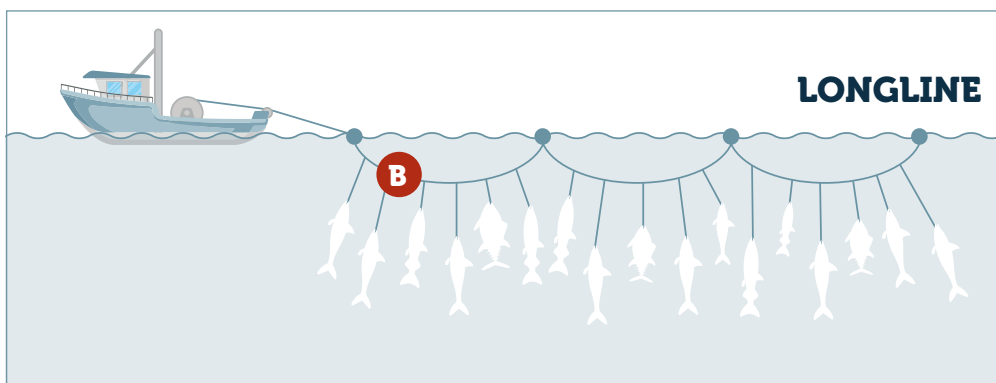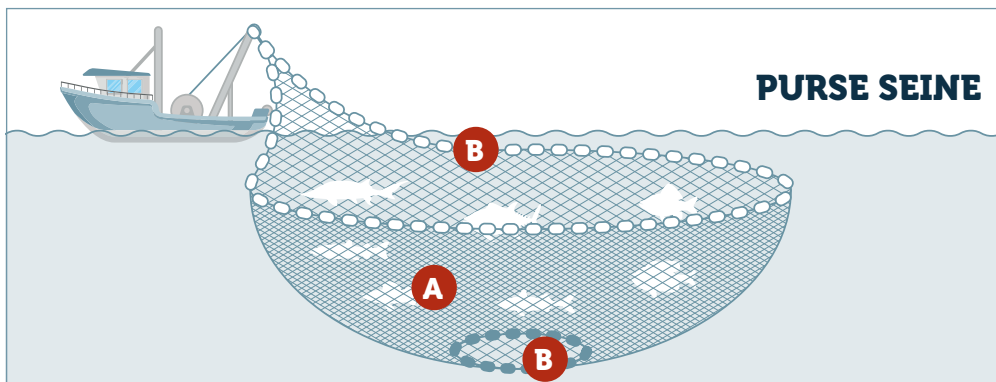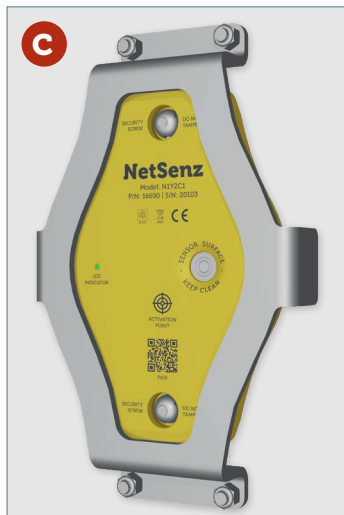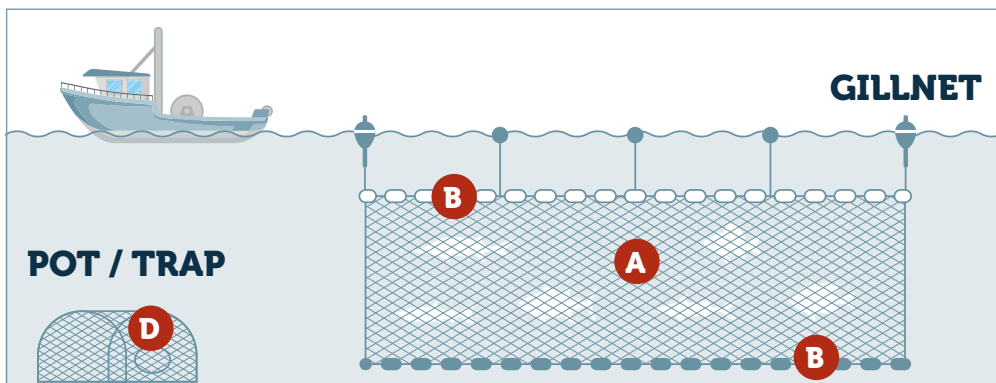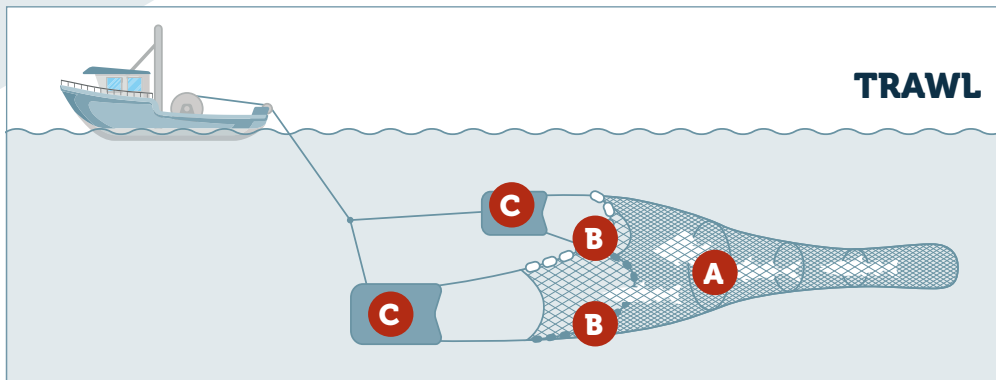- Power supply
- MCU (micro control unit)
- Internal memory
- RF communication
- Integral antenna
- Pressure, temperature, and water detection sensors

Stainless steel security screws with engraved unique ID for secure attachment

WIRELESS DATA SOLUTIONS

Wide range of fishing gear tagging possibilities ...

A **Trawl net / Gillnet / Purse seine** net mount

B **Trawl net / Gillnet / Purse seine / Longline** mount
on headline / headrope / floatline / footrope / leadline

C **Trawl door / Otter board** mount

D **Trap / Pot** mount

TRAWL

GILLNET

POT / TRAP

PURSE SEINE

LONGLINE

ema
WIRELESS DATA SOLUTIONS

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All technical and general information provided in this document has been carefully verified. However, completeness and accuracy cannot be guaranteed. Due to permanent improvements to our products, we reserve the right to change specifications at any time, without prior notification, and without obligation to update products already supplied.