NEMO

Connected. Protected. Empowered.



SIMPLE, RELIABLE, AFFORDABLE, SOLAR POWERED VMS FOR SSF

NEMO is the solar-powered transmitter from the first all-in-one system specifically designed by CLS for monitoring and protecting small-scale fisheries. NEMO offers global hybrid connectivity, using mobile/IoT networks in coastal areas and automatically switching to satellite communication when the vessel moves outside the range of terrestrial networks. Services range from basic delivery of data collected and processed in CLS' data center to data integration with client's fisheries monitoring centre and access to CLS' web platform for data visualization, alert management and customized analytics.

BENEFITS

- · CE certified
- · Solar panel
- · Rugged, waterproof design (IP67)
- · Fitted with a HMI
- · Anti spoofing capabilities
- · Easy to use: Plug-and-Fish
- · Tamper-proof
- · Smart Reporting
- · Unique Identifier

FEATURES & FUNCTIONALITIES

Tracking your fishing trip

- · Global coverage
- · Automatic data collection of vessel movements
- · Continuous on-board storage for data integrity
- Store and forward reporting
- · Adjustable settings (GNSS updates, reporting frequency)
- · Geofencing with different reporting strategy per zone

Protecting your fishing communities

- · Assistance button
- · Buzzer for zone boundaries crossina
- · Alerts on events
- · Sealing system and intrusion sensor

Connecting with your people

- · Multi-operator GSM & cellular IoT network for high frequency reporting near the shore
- · Satellite communication for service continuity and global coverage
- · Cost-effective sea-to-shore reporting strategy
- · Secure encrypted messages
- · Bluetooth connection with smart devices
- · Wired connection using mini-**USB** port













Physical and environmental characteristics*

PHYSICAL	
Dimensions (L x l x H)	222 mm x 127 mm x 105 mm
Weight	0,873 kg
Mounting	Base attached with five screws of 5 mm Optional: base / transceiver seal Fixed or detachable
POWER	
Battery	3.7 V, 5.2 Ah - Lithium Ion
Operating time	Minimum 2 weeks. Maximum few months (mainly depending on climate conditions and configurations)
Charging time	Less than 12 hours with mini USB cable
Charging	Solar panel or mini USB (800 mA)
ENVIRONMENTAL	
Operating temperature	-20 to +50°C
Storage temperature	-25 to +70°C
Charging temperature	+0 to +45°C
Waterproof	IP67
Compliance	EN 60945/RED (mechanical, environmental and EMC/Radio) CE
OPERATIONAL	
Operating modes	Nominal, low battery, power save, assistance, geofencing and stationary
LEDs	Power supply, failure display, assistance
Audible alarm/buzzer	95 dB at 10 cm
Button	Request for assistance button
Programming/settings	Via Bluetooth, mini USB port and over-the-air (cellular)
Reporting interval	Configurable from 5 minutes to 24 hours
Internal memory	32-Mbit Flash Memory (i.e. 6 months of data with an acquisition frequency of 5 min)
Speed accuracy	0.1 knot
Positioning accuracy	10 m at 95%
Geofencing	100 zones with 100 points each
COMMUNICATION	
Cellular	2G, 4G LTEM, 4G NB-IOT
Satellite	ARGOS 2, KINEIS
Bluetooth	Bluetooth Low Energy
USB	Mini USB
Positioning system	

*All characteristics are subject to change without prior notice.



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