

Extend your data reach across the globe.

REMOTE TWO-WAY MONITORING DATA RELAY

The Nemo X is a bi-directional data relay beacon which is submersible to 7,500 m and is equipped with a RS-232 communications port. It serves as a serial relay to a submersible vehicle or platform, while also functioning as an asset recovery beacon. While at the surface, the Nemo X acquires its position via GPS and passes the coordinates into the vehicle over RS-232. It also reports this GPS information over the Iridium network to the end-user – as a normal beacon does. Once this information is received, the operator can send commands to the Nemo X that can be anything from changing the flash rate on the beacon, to new activities for the vehicle. It gives the user the ability to communicate with a vehicle or platform remotely.

Xeos Nemo Relays are versatile, ruggedized data transmission devices for command and control of all your remote sensor data. Easily integrated with your data collection device, the Nemo X enables global data transmission in marine environments. Utilizing Iridium Short Burst Data communication, the Nemo X transmits data as email or over IP.

Key Features

- Two-way communication anywhere in the world
- Remote near real-time data recovery
- Remote configuration & control for AUVs
- GPS for location or timing functions
- Relays to relay communication
- Wake on input function – trigger or serial port
- Output on command to external relay

The Nemo X is backed by a fully comprehensive warranty and committed support. To arrange a demonstration or to learn more about our products, please contact us at the numbers below.



36 Topple Drive
Dartmouth, NS, Canada
B3B 1L6

Tel: 902.444.7650
sales@xeostech.com
www.xeostech.com

NEMO X



APPLICATIONS:

- Autonomous vehicle communications
- Meteorological buoy data relay
- Marine sensor data relay

NEMO X

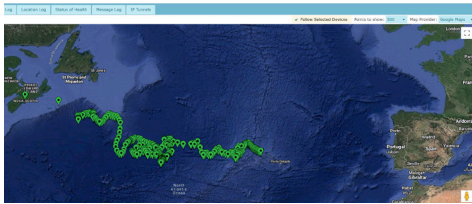


TECHNICAL SPECIFICATIONS*

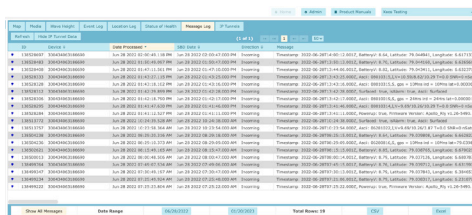
XeosOnline

Xeos Online is a web-hosted application that streamlines and facilitates the management of all your Xeos Iridium devices. A single source for viewing your beacon's messages, locations, and alerts. A command center for altering device settings, notification and alarm management, data collection, analysis, and billing. Xeos Online puts it all at your fingertips. XeosOnline Lite is also available for Mobile access to be in control anywhere.

XeosOnline Mapping Tool



XeosOnline Message Log



Who are we?

Xeos has been designing and manufacturing oceanographic beacons and sensors for over 20 years. Many of our products were designed in collaboration with industry leaders to fit their requirements. If you have a unique product idea that falls within Xeos's expertise, please reach out at the number below.

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Functionality	
<i>Base Function</i>	2-way Iridium communication, Serial Relay
<i>Serial Programmable Function</i>	Serial ID, Repetition Period, Iridium & GPS Transmit Intervals, Serial Port Tx/Rx Messages
Communications	
<i>GNSS Receiver</i>	uBlox MAX-8C0
<i>Iridium Transceiver</i>	9603 Modem (SBD)
<i>Antenna</i>	Xeos Proprietary Antenna, designed to withstand high pressure environments
<i>Power/Relay Controls</i>	Rs232 Transmit & Receive; NMEA 0183; 1-PPS
Electrical	
<i>Supply Voltage Range</i>	9-28 V Nominal
<i>GNSS Power Consumption</i>	210 mW (30 s avg)
<i>Iridium Power Consumption</i>	800 mW (30 s avg)
<i>Underwater Power Consumption</i>	60 mW
<i>Flash Power Consumption</i>	3600 mW
Mechanical	
<i>Material</i>	Titanium with a glass dielectric antenna component
<i>Dimensions</i>	Head: 8.33 cm L x 5.08 cm D (3.28" L x 2" D) Connector: 4.73 cm L x 2.87 cm D (1.86" L x 1.13" D) In Water: 390 g (0.86 lbs) Out of Water: 575 g (1.26 lbs)
<i>Weight</i>	
Environmental	
<i>Operating Temperature</i>	-40° C to +60° C
<i>Depth Rating</i>	Submersible to 7,500 m (11,000 m option available)
Compatible with	
<i>XeosOnline</i>	Web-based platform for tracking & monitoring
<i>XeosBeacons App</i>	Bluetooth app for set up, diagnostics, and commands

*Specifications subject to change without notice



Nemo X September 2024