

Extend your data reach across the globe.

REMOTE TWO-WAY MONITORING DATA RELAY

The Nemo-V is a bidirectional 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 retaining its function as an asset recovery beacon. While at the surface, the Nemo-V 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-V that can be anything from changing the flash rate on the beacon itself, 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 platforms for command and control of all your remote sensor data. Easily integrated with your data collection device, the Nemo-V enables global data transmission in marine environments. Utilizing Iridium Short Burst Data communication, the Nemo-V 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
- 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-V 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.



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NEMO-V

APPLICATIONS:

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

| Nemo-V | |
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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 |
| <i>GPS Receiver</i> | Xeos Technologies 48 Channel GPS, SiRFSTAR V |
| <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>Power Supply</i> | External power required; optional cable to connect to battery pack |
| <i>Sleep Current</i> <small>*all currents are measured at 12 Volts.</small> | 10.4 mA |
| <i>Transmit Current (Iridium)</i> | 60 mA (30 s avg) |
| <i>GPS Acquisition</i> | 21 mA (30 s avg) |
| Mechanical | |
| <i>Material</i> | All titanium with non-permeable glass antenna component |
| <i>Dimensions</i> | Head: 10.31 cm (4.06 in) L x 5.08 cm (2 in) diam . Connector: 2.76 cm (1.09 in) L x 1.52 cm (0.60 in) diam. |
| <i>Weight</i> | In Water: 370 g (0.82 lbs) Out of Water: 557 g (1.23 lbs) |
| Environmental | |
| <i>Operating Temperature</i> | -40° C to +60° C |
| <i>Depth Rating</i> | Submersible to 7,500 m (with 11,000 m option) |

*Specifications subject to change without notice

