

Extend your data reach across the globe.

REMOTE TWO-WAY MONITORING DATA RELAYS

Xeos Marine Relays are versatile, ruggedized data transmission platforms for command and control of all your remote sensor data. Quickly and easily integrated with your data collection device, the Xeos Relays enable global data transmission in marine environments. Utilizing Iridium Short Burst Data communication, the Xeos Relays transmit data as email or over IP.

The XMR is a surface version design for sea level platforms or buoys and the XMi-R is a deep water version for submerged platforms, moored or drifting. Extend the capabilities of your existing sensors by increasing the communication range and allowing multiple products to work together.

Key Features

- Remotely configure & monitor
- Wake on input function – trigger or serial port
- Use & combine multiple event rules
- Two-way communication
- Relays can communicate directly with each other
- On board storage of 8 MB (optional 2 GB)
- Output on command to external relay
- 3D accelerometer with optional configuration for motion detection or angle estimation
- Optional GPS for location or timing functions
- Optional heater for extreme cold weather operation
- XMi-R is Bluetooth enabled



XMR
XMi-R
XMR2

The XMR and XMi-R are backed by a fully comprehensive warranty and committed support; you can be confident that you'll come back to these tools time and time again. To arrange a demonstration or to learn more about our products, please contact us at the numbers below.

POTENTIAL APPLICATIONS:

Marine sensor data relay

Meteorological buoy - remote data relay

Automatic notification of specific sensor events



Xeos Technologies Inc Data Telemetry Specialists

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XMR

XMi-R

XM2



TECHNICAL SPECIFICATIONS*

	XMR	XMi - Relay	XM2
Functionality			
<i>Base Function</i>	2-way Iridium Communication, Serial Relay, Wake on 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 12 Channel GPS, GSD4e GPS Chip	Xeos Technologies 48 Channel GPS, GSD4e GPS Chip	Xeos Technologies 12 Channel GPS, GSD4e GPS Chip
<i>Iridium Transceiver</i>	9602 Modem (SBD)	9603 Modem (SBD)	9523 Modem (RUDICS/SBD)
<i>Antenna</i>	Xeos Proprietary Antenna, designed to withstand high pressure environments		
<i>Power/Relay Controls</i>	Rs232 Transmit & Receive		Rs232 Transmit & Receive
Electrical			
<i>Supply Voltage</i>	+12V Nominal recommended	+13.5 V Nominal	+9V to +20V Max
<i>Power Supply</i>	Powered via serial connection	<i>Standard:</i> 6 AA batteries or 9x CR123A <i>Optional:</i> 7 x CR123A	External
<i>Sleep Current</i>	140 µA	100 µA	450 µA
<i>Transmit Current</i>	36 mA (30 s avg)	50 mA (30 s avg)	<i>RUDICS:</i> 300 mA <i>SBD:</i> 150 mA (15s avg)
<i>GPS Acquisition</i>	18 mA (30 s avg)	13 mA (30 s avg)	18mA (30s avg)
Mechanical			
<i>Material</i>	Delrin	All titanium with non-permeable ceramic antenna component	Delrin
<i>Dimensions</i>	4" H x 4" diam	42.35 cm L x 5.08 cm diam (16.675" L x 2.00" diam)	27.3 cm L x 11.43 cm W x 8.89cm (10.75" L x 4.25" W x 3.5" H)
<i>Weight</i>	522 g without batteries	<i>In Water:</i> 874 g <i>Out of Water:</i> 1235 g *Including batteries	1814 g
Environmental			
<i>Operating Temperature</i>	-50 deg C to +60 deg C	-40° C to +60° C	-55° C to +60° C
<i>Depth Rating</i>	Sea level only – water resistant	Submersible to 11,000 m (36,089 ft)	Sea level only – water resistant

*Specifications subject to change without notice

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XMR - Jan 21 2015

