

Safeguard Your Ocean Assets

AIS COMPATIBLE DATA RELAY

The Petrel X Relay is an AIS compatible recovery beacon that detects nearby vessels by receiving AIS messages. The AIS information is received and then sent via RS-232 to a vehicle or platform, where appropriate action can be taken. The Petrel X Relay is submersible up to 6000 meters and enters a low power sleep when submerged. The Petrel X Relay also broadcasts its location via AIS and is best suited for short distance retrieval of valuable assets.

This beacon not only ensures a smooth and efficient retrieval of your asset, it also adds an extra layer of security by continuously monitoring nearby vessel activity through AIS. This real-time data can allow vehicle programming to automatically adjust its depth or trajectory to avoid potential collisions, thereby safeguarding your valuable assets even in high-traffic areas.

Key Features

- Automatically displays its location on nearby vessels AIS Navigation System
- Can notify asset of approaching vessels to avoid collisions
- No additional data plans or software required
- Enters low power sleep mode when underwater
- Pressure tolerant up to 6000 meters

The Petrel 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



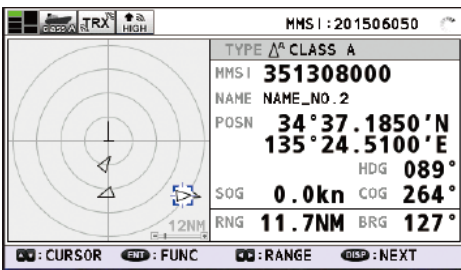
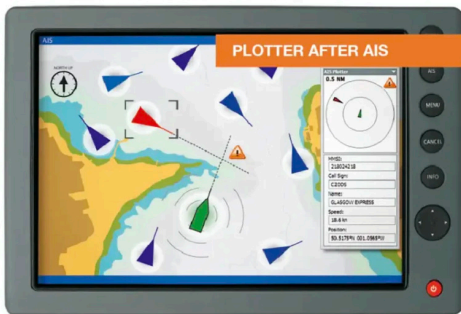
PETREL X RELAY

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How to track your Petrel X

The Petrel X beacon will automatically display its GPS locations on any nearby vessels AIS navigation system when within sufficient range. There are no additional devices, software, or data plans required by the end user - which makes the Petrel X the most convenient recovery beacon on the market.



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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TECHNICAL SPECIFICATIONS*

Functionality	
Base Function	Transmission of GPS location on AIS channels
Serial Programmable Function	AIS name, AIS transmissions ON/OFF, water check period
Communications	
Message Type	AIS Message Type 21 (AtoN Report)
Message Info	MMSI, AIS name, Latitude & Longitude
GNSS Receiver	uBlox MAX-8CO
Antenna	Xeos Proprietary Antenna, designed to withstand high pressure environments
Communication Protocol	Rs232 Transmit & Receive
Data Output	GPSS location & AIS data received, NMEA-0183 format
Electrical	
Supply Voltage Range	7-28 V Nominal
GPS Acquisition Mode	270 mW
AIS Operation Mode	400 mW
AIS Transmission (50ms duration)	1.55 W
Underwater Mode	780 μW
Mechanical	
Material	Titanium with a glass dielectric antenna component
Dimensions	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: 410 g (0.86 lbs)
Weight	Out of Water: 610 g (1.26 lbs)
Environmental	
Operating Temperature	-40° C to +60° C
Depth Rating	Submersible to 6000 m (11,000 m option available)
XeosBeacons App	Bluetooth app for set up, diagnostics, and commands

*Specifications subject to change without notice



Petrel X Relay Feb 2025