

# Simplifying Your Asset Recovery

## AIS COMPATIBLE RECOVERY BEACON

The Petrel is an AIS-compatible recovery beacon that operates analogous to an AIS Aid to Navigation (AtoN). Designed for short range tracking and recovery, the Petrel automatically displays its location on nearby vessels AIS chartplotter when within sufficient range. With no additional devices, software, or data plans required, the Petrel is the most convenient recovery beacon on the market.

Xeos's 18 years of expertise designing oceanographic recovery beacons has enabled us to create the worlds first full ocean depth AIS-compatible beacon. This revolutionary technology will allow the beacon's location to appear directly on the vessel navigation system so ship captains can retrieve the asset in a more efficient manner.

The Petrel is fully submersible and has been rated to 6,000 meters below sea level. During surfacing events, the water sense detection circuit provides a measure of reliability unavailable in mechanical methods.

## Key Features

- Automatically displays its location on nearby vessels AIS chartplotter
- No additional devices, data plans, or software required
- Remains dormant when underwater
- Pressure tolerant casing and antenna
- Configuration with smartphone app via Bluetooth
- Remote head option available

The Petrel 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.



## **Xeos** Technologies Inc Data Telemetry Specialists

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# Petrel



### APPLICATIONS:

Autonomous vehicle tracking & recovery

Deep sea mooring recovery

Ocean Bottom Seismometer recovery

<b>Petrel</b>	
<b>Functionality</b>	
<i>Base Function</i>	Transmission of GPS location on AIS channels
<i>Message Type</i>	AIS Message Type 21 (AtoN Report)
<i>Message Info</i>	MMSI, AIS name, Latitude & Longitude
<i>GPS Receiver</i>	Xeos Technologies 48 Channel GPS, SiRFSTAR V
<i>Antenna</i>	Xeos Proprietary Antenna, designed to withstand high pressure environments
<b>Electrical</b>	
<i>Supply Voltage Range</i>	7-16 V Nominal
<i>Battery Supply</i>	3 SAFT LSH20 D cell batteries
<i>Sleep Current</i> <small>*all currents are measured at 12 Volts.</small>	200 $\mu$ A
<i>Transmit Current (AIS)</i>	700 mA (40 ms avg)
<i>AIS Operation Current</i>	34 mA
<i>GPS Acquisition Current</i>	27 mA (30 s avg)
<b>Mechanical</b>	
<i>Material</i>	Titanium with a glass dielectric component and
<i>Dimensions</i>	28.32 cm (11.15 in) L x 5.08 cm (2 in) diam not including whip antenna.
<i>Weight</i>	Out of Water: 1820 g (4.01 lbs) In Water: 1230 g (2.71 lbs)
<b>Environmental</b>	
<i>Operating Temperature</i>	-40° C to +60° C
<i>Depth Rating</i>	Submersible to 6,000 m

\*Specifications subject to change without notice

