World's Most Capable Oceanographic Beacon

SUBMERSIBLE IRIDIUM GPS LED FLASHER BEACON

The Apollo is an independently powered, self-contained GPS and Iridium communications recovery beacon with the power of an ultra-bright LED Flasher. Get notification of the Apollo's arrival at the surface from anywhere on Earth via the Iridium Low Earth Orbit satellite communication system. Once you arrive on site, the LED flasher will provde unparalleled visibility, even in the worst conditions.

The Apollo is fully submersible and has been rated to 11,000 m (36,089 ft) below sea level. During surfacing events, the water sense detection circuit provides a measure of reliability unavailable in mechanical methods. Simply put, the Apollo provides superior functionality and flexibility in a miniaturized package.

Key Features

- Iridium transceiver to send accurate GPS locations
- 2-way command & control
- Three sizes: Apollo, Apollo-3, and Apollo-Mono
- Long lasting operational life
- Pressure tolerant antenna made of titanium and glass
- Configuration control via smartphone with Bluetooth
- Flexible activation options: Reed switch, tilt switch, and conductivity water sense

The Apollo's LED flasher and Iridium communication provide the best combination in global and local retrieval options for a deepwater submersible beacon. All Xeos products are fully backed by a comprehensive warranty and excellent support.



Xeos Technologies Inc Data Telemetry Specialists

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TECHNICAL SPECIFICATIONS

Apollo Models			Functionality	
APOLLO			Base Function	2-way Iridium communication
Battery Supply	7 D cell alkaline batteries			GPS Location & transmission of data
Length	52.91 cm (20.83″)			Ultra Bright LED Flasher
Weight in air	3637 g	1	LED Technology	
Weight in water	2562 g		LED	3 watts, single emitter type
Depth Rating	11, 000 m			Flash Options: 1 to 4 flashes; adjustable intervals (1-60 sec)
Sleep Current	30 µA		Communications	
Transmit Current	60 mA (avg. 30 sec)	_	Iridium	9603 Iridium Transceiver, SBD
APOLLO-3			Antenna	Xeos proprietary antenna, designed to withstand extreme
Battery Supply	3 SAFT LSH20 D-cell batteries			pressure environments
Length	28.32 cm (11.15″)		Local	Bluetooth Low Energy (BTLE)
Weight in air	1839 g	1	Environmental	
Weight in water	1264 g		Operating - 20°C to + 60°C Temperature	
Depth Rating	11, 000 m			$-20^{\circ}C$ to $+60^{\circ}C$
Sleep Current	30 µA		Compatible with	
Transmit Current	60 mA (avg. 30 sec)		XeosOnline™Console	Web-based control & tracking
APOLLO-MONO	D		XeosBeacon App	Diagnostics and Commands

Mechanical

Diameter

Material

End Cap

Battery Supply	1 SAFT LSH20 D-cell battery		
Length	14.66 cm (5.77")		
Weight in air	590 g		
Weight in water	280 g		
Depth Rating	6, 000 m		
Sleep Current	35 μΑ		

Apollo Deployment Example

Transmit Current 120 mA (avg. 30 sec)

Subsurface Deployment of 1 year

Lifetime at surface:

Apollo Models

Apollo: 104 days Apollo-3: 76 days Apollo-Mono: 50 days

GPS position interval of 1 hour Iridium message interval of 1 hour Flasher setting of 1 flash every 10 seconds

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Apollo-Remote Head Option Available:² **Power Supply** 6-20 VDC, External power supply required Dimensions 10.31 cm L x 5.08 cm D (4.06" L x 2.00" D) Weight 557 g - out of water Depth Rating 7500 m

Titanium with a glass dielectric antenna component

¹Technical Specifications subject to change without notice. ² Cables and submersible battery packs also available.

5.08 cm (2.00")

Screw off, O-Ring sealed

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