

Benthos Location & Recovery

Acoustic Locator Pingers



- TRACK
- LOCATE
- RECOVER
- WATER ACTIVATED
- FIELD PROVEN
- EXTREME CONDITIONS



Pingers are used to mark underwater equipment or locations. They are generally about the size of a flashlight and can be attached to any mooring. The unit pings continuously when in the water. To recover a mooring, a diver or ROV is sent with a device to “listen” for, and home-in on, the pinger sound.

ALP-365 is an advanced acoustic device designed for versatility in the offshore environment. Its electronics are protected by a rugged aluminum housing to insure long life under extreme conditions. Water activated.

ALP-365/EL offers all the same features and user options as the standard ALP-365 but with extended battery life. Using six 9 V alkaline or lithium batteries, it can operate up to 180 days in extreme conditions. Water activated.



SPECIFICATIONS

Frequency	25 to 40 kHz in .5 kHz increments (user selectable)	25 to 40 kHz in .5 kHz increments (user selectable)
Acoustic Output re 1 μ Pa@1m (Acoustic Power)	162 dB (.125W) 168 dB (.5W) 174 dB (2W) 177 dB (5W)	162 dB (.125W) 168 dB (.5W) 174 dB (2W) 177 dB (5W)
Pulse Length	4 ms	4 ms
Pulse Repetition	2 pulse/sec, 1 pulse/sec, or 1 pulse/2 sec (user selectable)	2 pulse/sec, 1 pulse/sec, or 1 pulse/2 sec (user selectable)
Housing	Aluminum	Aluminum
Weight in Air	.68 kg (1.5 lbs)	1.0 kg (2.25 lbs)
Dimensions	Length: 18.42 cm (7.25 in); Diameter 5.08 cm (2.0 in)	Length: 30.2 cm (11.88 in); Diameter 5.08 cm (2.0 in)
Power Source	Two 9V alkaline or two 9V lithium batteries. Customer supplied	Six 9V alkaline or six 9V lithium batteries. Customer supplied
Battery Life	Pulse repetition dependent. 0.125W: 20-26 days 9V alkaline; 45-60 days 9V lithium 0.5W: 10-20 days 9V alkaline; 20-45 days 9V lithium 2W: 3-10 days 9V alkaline; 6-20 days 9V lithium 5W: 1-4 days 9V alkaline; 2-8 days 9V lithium	Pulse repetition dependent. 0.125W: 60-78 days 9V alkaline; 135-180 days 9V lithium 0.5W: 30-60 days 9V alkaline; 60-135 days 9V lithium 2W: 9-30 days 9V alkaline; 18-60 days 9V lithium 5W: 3-12 days 9V alkaline; 6-24 days 9V lithium
Depth Rating	750 m (2,460 ft)	750 m (2,460 ft)
Notes		

ELP-362A is a small, rugged underwater pinger rated to full ocean depth. Its compact size makes it ideal for use on ROVs, AUVs, ordnance and equipment recoveries. It can withstand extreme shock, vibration, pressure and temperature. Water activated.

ELP-362A/PL offers the same features as the ELP-362A but with activation by power loss through an external connector. Best suited for use on ROVs or AUVs and will automatically activate when a vehicle loses power. Only operates when submerged in water and will not turn on at surface when vehicle is shut down. No other power loss pinger is as compact, rugged and deep rated.

DPL-275 is our most advanced system for locating and tracking underwater pingers. The DPL-275 steers users to pingers operating between 5 and 80 kHz. It can be used as a diver-held unit or converted to a surface unit.

DPL-275XS offers the same features as DPL-275 but can be used from a surface vessel.



37.5 kHz (±1kHz)	37.5 kHz (±1kHz)	5-80 kHz, 2 kHz bandwidth	5-80 kHz, 2 kHz bandwidth
160.5 dB (.125W)	160.5 dB (.125W)	Hydrophone directivity: typically 30° between 3 dB limits	Hydrophone directivity: typically 30° between 3 dB limits
9 ms	9 ms	n/a	n/a
1 pulse/sec	1 pulse/sec	n/a	n/a
Aluminum	Aluminum	PVC	PVC
190 g (6.7 oz)	233 g (8.2 oz)	3.08 kg (6.8 lbs)	3.08 kg (6.8 lbs)
Length: 12.50 cm (3.92 in); Diameter: 3.30 cm (1.3 in)	Length: 12.83 cm (5.05 in); Diameter: 3.30 cm (1.3 in)	Length: 27 cm (10.63 in); Diameter: 11.4 cm (4.5 in)	Length: 27 cm (10.63 in); Diameter: 11.4 cm (4.5 in)
7.2V lithium battery	7.2V lithium battery	10.8V rechargeable NiCad battery pack	10.8V rechargeable NiCad battery pack
>30 days	>30 days	16 hours per 12-hour charge	16 hours per 12-hour charge
6096 m (20,000 ft)	6096 m (20,000 ft)	183 m (600 ft) Comes complete with compass, bone conduction earphone, rechargeable battery pack with charger, operation manual, and water-tight, shock-resistant carrying case.	183 m (600 ft) Comes complete with compass, bone conduction earphone, rechargeable battery pack with charger, operation manual, surface conversion kit and water-tight, shock-resistant carrying case.

Transponders offer a versatile array of subsea acoustic markers for relocation, which respond when interrogated.

UAT-376 is a general purpose, acoustic ranging/bearing device for underwater applications. Operating in the mid-range frequency band of 20- 35 kHz, it is designed to be used with a variety of diver, ROV/AUV, and ship-installed acoustic interrogator applications.

UAT-376/EL is a general purpose, acoustic ranging device for underwater applications. The stretch housing design accommodates additional batteries for longer deployments.

DRI-267 Dive Ranger Interrogator employs advanced acoustic technology to guide users to underwater sites marked with underwater acoustic transponders. Designed primarily for divers, it can also be converted to a surface unit by using the optional ACU-266 Surface Conversion Kit. (Contact Benthos for information on ACU-266)



Frequency	Receive: 26 kHz; Transmit: 25, 27, 28, 29, 30, 31, 32 kHz	Receive: 26 kHz; Transmit: 25, 27, 28, 29, 30, 31, 32 kHz	Receive: 25, 27, 28, 29, 30, 31, 32 kHz (user selectable). Transmit: 26 kHz
Acoustic Output re 1 μ Pa@1m (acoustic Power)	180 dB (8W)	180 dB (8W)	184 dB (20W)
Pulse Length	5 ms	5 ms	5 ms
Pulse Repetition	Receiver turn-around time: 20 ms from interrogation; transmit lockout time: 246 ms	Receiver turn-around time: 20 ms from interrogation; transmit lockout time: 246 ms	1 pulse/sec or 1 pulse/2 sec (user selectable)
Housing	Aluminum	Aluminum	PVC
Weight in Air	.68 kg (1.5 lbs)	1 kg (2.25 lbs)	3.4 kg (7.5 lbs)
Dimensions	Length: 18.42 cm (7.25 in); Diameter: 5.08 cm (2.00 in)	Length: 30.2 cm (11.88 in); Diameter: 5.08 cm (2.00 in)	Length: 30.5 cm (12.0 in); Diameter: 11.4 cm (4.5 in)
Power Source	Two 9V alkaline or 9V lithium batteries	Six 9V alkaline batteries or 9V lithium batteries	10.8 V rechargeable NiCad battery pack
Battery Life	Alkaline: 4 months or 150,000 replies Lithium: 8 months or 300,000 replies	Alkaline: 12 months or 450,000 replies Lithium: 24 months or 900,000 replies	12 hours per 12-hour charge
Depth Rating	750 m (2,460 ft)	750 m (2,460 ft)	183 m (600 ft)
Notes			24 kHz receive frequency available



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