



# SWALE OCEANOGRAPHIC

Teledyne Benthos

# 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.

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



	<p><b>ALP-365</b> is an advanced acoustic device designed for versatility in the offshore environment. Its electronics are protected by a rugged aluminium housing to insure long life under extreme conditions. Water activated.</p> 	<p><b>ALP-365/EL</b> 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.</p> 	<p><b>DPL-275</b> is our most advanced system for locating and tracking underwater pingers. It steers users to pingers operating between 5 and 80 kHz. It is designed to be used with a variety of diver, ROV/AUV, and ship-installed acoustic interrogator applications.</p> 	<p><b>UAT-376</b> 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.</p> 	<p><b>UAT-376/EL</b> is a general purpose, acoustic ranging device for underwater applications. The stretched housing accommodates extra batteries for longer deployments</p> 	<p><b>DRI-267</b> 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.</p> 
<b>Frequency</b>	25 to 40 kHz in .5 kHz increments	25 to 40 kHz in .5 kHz increments	5-80 kHz, 2 kHz bandwidth	Receive: 26 kHz; Transmit: 25, 27, 28, 29, 30, 31, 32 kHz	Receive: 25, 27, 28, 29, 30, 31, 32 kHz. Transmit: 26 kHz	Receive: 25, 27, 28, 29, 30, 31, 32 kHz. Transmit: 26 kHz
<b>Acoustic Output</b> re 1mPa@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)	Hydrophone directivity: Typically 30° between 3 dB limits	180 dB (8W)	180 dB (8W)	184 dB (20W)
<b>Pulse Length</b>	4 ms	4 ms	n/a	5 ms	5 ms	5 ms
<b>Pulse Repetition</b>	2 pulse/sec, 1 pulse/sec, or 1 pulse/2 sec	2 pulse/sec, 1 pulse/sec, or 1 pulse/2 sec	n/a	Receiver turn-around time: 20 ms from interrogation; transmit lockout time: 246 ms	1 pulse/sec, or 1 pulse/2 sec	1 pulse/sec, or 1 pulse/2 sec
<b>Housing</b>	Aluminium	Aluminium	PVC	Aluminium	Aluminium	PVC
<b>Weight in Air</b>	0.68 kg	1.0 kg	3.08 kg	0.68 kg	1.0 kg	3.4 kg
<b>Dimensions</b>	Length: 18.42 cm Diameter 5.08 cm	Length: 30.2 cm Diameter 5.08 cm	Length: 27 cm ; Diameter: 11.4 cm	Length: 18.42 cm Diameter 5.08 cm	Length: 30.2 cm Diameter 5.08 cm	Length: 30.5 cm ; Diameter: 11.4 cm
<b>Power Source</b>	Two 9V alkaline or two 9V lithium batteries.	Six 9V alkaline or six 9V lithium batteries	10.8V rechargeable NiCad battery pack	Two 9V alkaline or two 9V lithium batteries.	Six 9V alkaline or six 9V lithium batteries	10.8V rechargeable NiCad battery pack
<b>Battery Life</b>	Pulse rep' dependent. 0.125W: >20 days alk; >45 days lithium 0.5W: >10 days alkaline; >20 days lithium 2W: 3-10 days alkaline; 6-20 days lithium 5W: 1-4 days alkaline; 2-8 days 9V lithium	Pulse rep' dependent. 0.125W: >60 days alk; >135 days lithium 0.5W: >30 days alkaline; >60 days lithium 2W: 9-30 days alkaline; 18-60 days lithium 5W: 3-12 days alkaline; 6-24 days 9V lithium	16 hours per 12-hour charge	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
<b>Depth Rating</b>	750 m	750 m	183 m	750 m	750 m	183 m

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