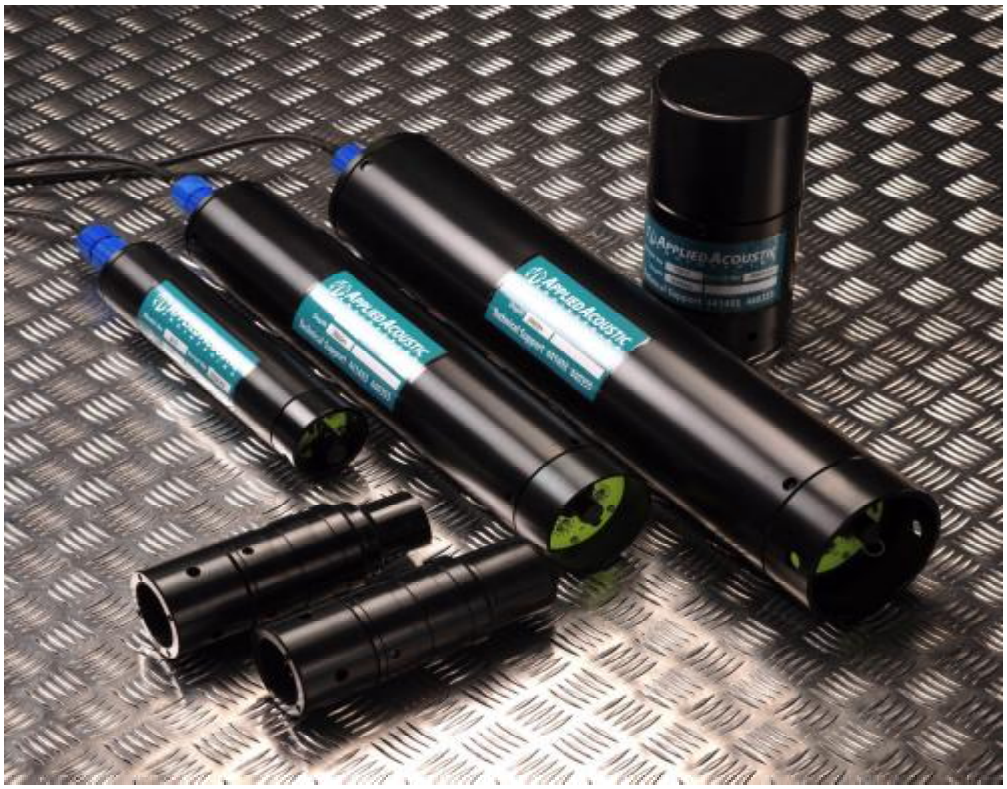
Acoustic Positioning

High Power ROV Beacon



Intended for deepwater operation up to 3000 metres depth, AAE 930 and 940 Beacons use our microprocessor technology for operation with the Applied Acoustics PAM Unit, ORE Trackpoint II, Simrad HPR 300 & 400, Simrad HiPAP and Sonardyne USBL systems. They are transducer-less versions of our 900 series "Midi's" and have a connector for the fitting of a remote directional transducer. The high transducer source level is particularly useful for work in deep water or in very noisy environments. Two rotary switches offer 144 'channels' for operation as transponder, responder and pinger. If your ROVs would benefit from the addition of high power, easy to integrate, multi-compatible positioning transponders, take the Applied Acoustics High Power ROV Beacon advantage onboard.

TECHNICAL SPECIFICATION

Two basic types of ROV Beacon:
Model 930: 95mmø x 470mm long.
Model 940: 95mmø x 570mm long.

Beacon standard physical specifications:

Weight in air / water	4.5 / 3.0 kg.
Housing Material	Hard Anodised Aluminium.
Depth Rating	3000m standard.
ON/OFF switch	Rotary in lower end-cap.
Channel Selection	Two rotary switches.

Electrical specifications:

Battery Type	Rechargeable Ni-cad.
Operational Life	930: 50,000 replies (10mS pulse). 940: 100,000 replies. (With 1.3mS pulse [TP2] life is 6 times greater).
Listening Life	930: 45 days. 940: 75 days.
Transmit Frequency	27-33 kHz.
Receive Frequency	16-27 kHz.
Turn Around Time	15/30/60ms dependant on setting.
Charging Connector	XSG-4-BCL on end-cap.
Responder Key	+ve 3 - 25 volts.
External Power	22 - 35vdc @ 150mA.
Rx Sensitivity	80dB re 1 uPa typ.
Depth Sensors	1000m, 2000m and 4000m.

Model RM15 Remote Transducer:

Size	125mmø x 260mm.
Source Level	208dB 27 - 33 kHz.
Beam Pattern	± 15 degrees. - 3 dB.
Weight in air	6.5 kg.
Weight in water	4 kg.
Interconnect lead	1m minimum.

Compatibility:

Channels/frequencies	HPR300:	14, transponder/responder.
	HPR400:	14+56, transponder/responder.
	HiPAP:	56, transponder/responder.
	Sonardyne USBL:	14, transponder/responder.
	ORE Trackpoint II:	11, transponder/responder. 5, pinger.
	Emergency Pinger:	37.5 kHz.
	Test Channels:	3.

Options: Depth Telemetry, Additional Remote Transducer(s), Alkaline Battery Packs, Battery Chargers. These models are just a part of our comprehensive range of medium frequency acoustic positioning beacons. Please consult the factory or your local representative for further information.

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