

ACOUSTIC POSITIONING

MIDI-BEACONS



With a higher acoustic output than our 916 and 919's, our midi designs continue to increase in popularity. Their longer operating ranges make them the units of choice for operations in difficult acoustic conditions. There are 6 models to choose from, including a very high power variant, each with differing battery longevity / transducer combinations. We also manufacture a dedicated high power Midi ROV beacon with a remote transducer for demanding acoustic conditions (data sheet available on request). As with all our Transponders, AAE Midi's are compatible with most of today's industry standard tracking systems. They are also easily externally configurable for use as Transponder, Responder or Pinger. Depth telemetry versions are also available.

Three basic types of Midi-beacons, with a choice of battery life:

Model 935:	+/- 45 degrees	200dB 95mmø x 480mm long.	25 hrs at 0.5pps.
Model 933: NEW	+/- 30 degrees	204dB 95mmø x 480mm long.	12 hrs at 0.5pps.
Model 939:	+/- 90 degrees	191dB 95mmø x 480mm long.	50 hrs at 0.5pps.
Model 945:	+/- 45 degrees	200dB 95mmø x 580mm long.	50 hrs at 0.5pps.
Model 943: NEW	+/- 30 degrees	204dB 95mmø x 580mm long.	24 hrs at 0.5pps.
Model 949:	+/- 90 degrees	191dB 95mmø x 580mm long.	100 hrs at 0.5pps.

Depth rating to 3000 metres

Beacon standard physical specifications:

Weight in air/water	93x 5kg/2.5kg, 94x 6.5 kg/3 kg.
Housing material	Hard Anodised Aluminium.
ON/OFF switch	Rotary in lower end-cap.
Channel selection switches	Rotary in lower end-cap.
Number of channels	144 available. Some spare.

Electrical Specifications:

Battery type	Rechargeable Ni-Cad. (With 1.3mS pulse, life is 6 times greater – T2 & H'star).
Listening life	93x: 45 days. 94x: 90 days.
Transmit frequency	27-33 kHz.
Receive frequency	17-27 kHz.
Turn around time	15/30/60 mS, dependant on channel.
Charging connector	VSG-4-BCL on end-cap.
Responder key	+ve 5 – 25 volts.
External power	22–35 vdc @ 120 mA.
Rx sensitivity	90 dB re 1 uPa typ.
Depth sensors	300m, 500m, 1000m, 2000m and 4000m.

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, Higher Source Levels, Alkaline Battery Packs, 150V DC Operation, Chargers and Testers. 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.

January 2003



Marine House, Marine Park, Gapton Hall Road, Great Yarmouth, NR31 0NL, England
 Tel: + 44 (0) 1493 440355 Fax: + 44 (0) 1493 440720
 www.appliedacoustics.com email: general@appliedacoustics.com

Due to continual product improvement these specifications may be subject to change without notice.