



# : Technical Specification

## **Midi Beacons**

Midi Beacons offer all round flexibility in difficult acoustic conditions such as found in deeper water or noisy environments.

Midi Beacons are compatible with Easytrak and almost all industry tracking systems operating worldwide. As all switch selections are external, there is no need to open the product to change channels to match the tracking system chosen. Battery charger and external power switches are similarly external.

## **Key Features**

- : Directional or omni-directional beam pattern, depending on the application.
- : Externally configurable for use as Transponder, Responder or Pinger.
- : Optional high power model to operate longer ranges (H suffix).
- : Can be supplied with a remote transducer.
- : Transducer Protection Cages available to reduce accidental impact damage.
- : Telemetry option for confirmation of accurate beacon depth (D suffix).
- : Survival depth to 4000m also available.



LOWER END CAP



MODEL 935



MODEL 949

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#### **MODEL TYPES - PHYSICAL SPECIFICATION**

Housing material; Hard anodised aluminium

	Beam Pattern	SPL	Diameter	Length	Survival depth	Weight air/water
Model 935	+/- 45°	200dB	95mm	480mm	3000m	5kg/2.5kg
Model 935H*	+/- 45°	203dB	95mm	480mm	3000m	5kg/2.5kg
Model 939	+/- 90°	191dB	95mm	480mm	3000m	5kg/2.5kg
Model 945	+/- 45°	200dB	95mm	580mm	3000m	6.5kg/3kg
Model 945H*	+/- 45°	203dB	95mm	580mm	3000m	6.5kg/3kg
Model 949 *High Power	+/- 90°	191dB	95mm	580mm	3000m	6.5kg/3kg

#### **ELECTRICAL SPECIFICATION**

Battery\*\*

Type Rechargeable e.g. NiMH

Non-rechargeable e.g. Alkaline

Listening Life Model 939, 935, 935H: 45 days

Model 949, 945, 945H: 60 days

Operational life Dependent on pulse rate

Model 939: 35 hours at 1.0pps Model 935: 25 hours at 1.0pps Model 935H: 12 hours at 1.0pps Model 949: 70 hours at 1.0pps Model 945: 50 hours at 1.0pps Model 945H: 24 hours at 1.0pps

High power models have 50% operational life of standard product.

Configuration

Transmit frequency range 27-33 kHz Receive frequency range 17-27 kHz

Turn around time 15/30/60mS dependent on channel Transmit pulse width 1.5/10mS dependent on channel

Available channels 144

**External Inputs** 

Connector type VSG 4-BCL
Responder key Positive 5-25 volts
External power 22-35 vdc @ 120mA

AAE charge Used with AAE 982 Smart Charger or PAM test set

Ground Common ground

#### **COMPATIBILITY**

		Available Channels	Transponder/Responder
Tracking System	Easytrak	20	Yes
	Simrad HPR300	14	Yes
	Simrad HPR400	14 + 56	Yes
	Simrad HiPAP	56	Yes
	Sonardyne USBL	14	Yes
	ORE Trackpoint II	8	Yes
Pinger		5	
Emergency Pinger		37.5kHz	
Test Channels		3	

### **OPTIONS**

Survival depth to 4000m Remote transducer Protection cage Depth sensors, 100m/300m/1000m/2000m/4000m

#### NOTES

\*\*As advances in battery technology allow, AAE's policy is to continually upgrade the batteries supplied. This increases both the listening life and the operational life of the beacons.

subject to change without notice.







Due to continual product improvement, specification information may be