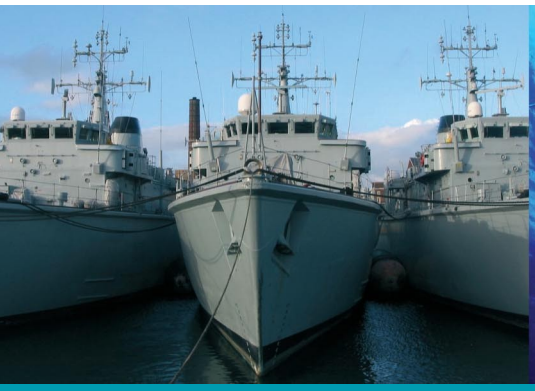
APPLIED ACOUSTICS

Underwater Technology



Technical Specification

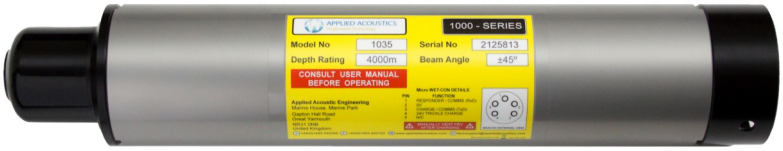
1000 Series Midi Beacon

The 1000 Series Midi Beacons have been developed to add extra versatility to the beacon range. Although designed for use with Easytrak USBL systems, the beacons retain compatibility with many other USBL tracking systems.

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

Featuring the industry standard 5-pin connector, the beacons are quick and easy to configure using the 1082 Smart Switch.

The beacons feature an onboard fast charger for a typical 4 hour charge time, activated and monitored via the Smart Switch.



MODEL 1035 MIDI BEACON

Key Features

Spread Spectrum Technology

Configurable for use as Transponder and Responder

Industry Standard 5-pin connector

Quick and easy configuration via 1082 Smart Switch

Onboard fast charger for typical 4 hour charge time

Optional high power model to operate longer ranges (H suffix)

Directional or omni-directional beam pattern depending on application

Digital Spread Spectrum telemetry option for confirmation of accurate beacon depth (D suffix)

Transducer Protection Cages available to reduce accidental impact damage

Survival depth to 4000m as standard

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MODEL TYPE—PHYSICAL SPECIFICATION

Housing material: Hard anodised aluminium, with durable clear protection sleeve.

	Beam Pattern	SPL	Diameter	Length	Survival Depth	Weight air/water
Model 1035	**±45°**	**200dB**	**95mm**	**535mm**	**4000m**	**5.7kg/2.75kg**
Model 1035H High Power	**±45°**	**203dB**	**95mm**	**535mm**	**4000m**	**5.7kg/2.75kg**
Model 1039	**±90°**	**191dB**	**95mm**	**535mm**	**4000m**	**5.7kg/2.75kg**

ELECTRICAL SPECIFICATION

Battery

Type	Rechargeable; NiMH as standard Non-rechargeable ; Alkaline optional
Listening life	90 days
Operational life	Dependent on pulse rate. Shown without depth telemetry in AAE Spread Spectrum mode Model 1035; 60 hours at 1.0pps Model 1035H; 30 hours at 1.0pps Model 1039; 150 hours at 1.0pps

Configuration

Transmit frequency range	26 - 33.5kHz
Receive frequency range	17 - 31kHz
Depth sensors	100m/300m/1000m/2000m/4000m

External Inputs

Connector type	MCBH5M 5-way connector
Responder key	+5 - 25 Volts
External power	22-35 Vdc @ 120mA
AAE Charge	Onboard fast charger for 4 hour charge (typical). Activated and monitored via 1082 Smart Switch
Ground	Common ground

COMPATIBILITY

		Available Channels	Transponder/Responder
Tracking System	Easytrak Nexus	32	Yes
	Easytrak	20	Yes
	Simrad HPR300	14	Yes
	Simrad HiPAP	56	Yes
	Sonardyne USBL	14	Yes
	Sonardyne Wideband™ (including 9 Quickset)	All	Yes
	Ore Trackpoint II	25	Yes
Test channels		3	

OPTIONS

Remote transducer
Protection cage

Registration No. U6447
BS: EN: ISO9001

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Due to continual product improvement, specification information may be subject to change without notice.