



: Technical Specification

1000 Series Mini Beacons

The recently developed 1000 Series Beacons have been designed to add extra versatility to the AAE Beacon range. Although designed for use with Easytrak USBL systems, it retains compatibility with many other USBL tracking systems.

Featuring the industry standard 5-pin connector, 1000 Series Mini Beacons are quick and easy to configure using the 1082 Smart Switch .

The beacon features an onboard fast charger for a typical 3 hour charge time. Charging is activated and monitored via the 1082 Smart Switch.

Key Features

- : Configurable for use as Transponder, Responder or Pinger.
- : Industry standard 5-pin connector.
- : Quick and easy configuration via 1082 Smart Switch.
- : Onboard fast charger for typical 3 hour charge time.
- : Directional or omni-directional beam pattern, depending on the application.
- : Telemetry option for confirmation of accurate beacon depth (D suffix)
- : Transducer Protection Cages available to reduce accidental impact damage.



MODEL 1019D with 1082 Smart Switch

Bottom View

MODEL TYPES - PHYSICAL SPECIFICATION

Housing material; Hard anodised aluminium

	Beam Pattern	SPL	Diameter	Length	Survival depth	Weight air/water
Model 1015	+/- 45°	193dB	69mm	390mm	1500m	2.5kg/1.5kg
Model 1015H	+/- 30°	196dB	69mm	390mm	2000m	2.5kg/1.5kg
Model 1019	+/- 90°	188dB	69mm	375mm	1500m	2.5kg/1.5kg

ELECTRICAL SPECIFICATION

Battery*

Type	Rechargeable - NiMH as standard Non-rechargeable - Alkaline optional
Listening Life	60 days
Operational life	Dependent on pulse rate, Shown without depth telemetry Model 1015: 35 hours at 1.0pps Model 1015H: 20 hours at 1.0pps Model 1019: 35 hours at 1.0pps

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	1.5/2/10mS dependant on channel
Available channels	256

External Inputs

Connector type	MCBH5M 5-way connector
Responder key	Positive 5-25 volts
External power	22-35 vdc @ 80mA
AAE charge	Onboard fast charger for 3 hour charge (typical) Activated and monitored via 1082 Smart Switch
Ground	Common ground

COMPATIBILITY

		Available Channels	Transponder/Responder
Tracking System	Easytrak	18	Yes
	Simrad HPR300	14	Yes
	Simrad HPR400	14 + 56	Yes
	Simrad HiPAP	56	Yes
	Sonardyne USBL	14	Yes
	ORE Trackpoint II	25	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.





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1082 Smart Switch

The 1082 Smart Switch is a pocket-sized solution to quick and easy 1000 Series Beacon configuration, fast charge activation and fast charge monitoring.

Easy to operate with 4 buttons and backlit display, the 1082 Smart Switch also features compatible beacon trickle charge and responder test functionality.



1082 SMART CHARGER

Key Features

- : Pocket-sized construction
- : Easy to operate with 4 buttons and backlit display
- : Quick and easy configuration of 1000 Series beacons
- : Responder test function
- : Fast charge activation and monitoring of 1000 Series beacons*
- : Compatible beacon trickle charge function*
- : Internal rechargeable battery*

* Requires included power supply unit



BEACON CONNECTION CABLE

SPECIFICATION

Physical

Dimensions	117mm x 73mm x 24mm
Weight	160g
User Interface	4 buttons 2-line backlit crystal display
Other	Reset Button

External Connectors

Comms/Power	9-way 'D' socket
DC Input	2.1mm DC power socket

Battery

Type	Internal rechargeable NiMH
Operational life	2 days minimum constant use (Powers down to very low power standby after 2 minutes of no user activity)
Standby Life	5 month typical
Charge Time	17 hours typical (exhausted to full charge)
Charge Method	Trickle charge @ 40mA

Operation

Modes	Fast identify beacon Beacon configuration Responder test Trickle charge Fast charge Smart Switch configuration
Firmware	Field upgradeable

Included accessories

Beacon connection lead	9-Way 'D' plug to MCIL5F 5-way cable socket
Power supply unit	30VDC terminated with 2.1mm DC power plug 100-250VAC mains input



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