



## : Technical Specification

### Low Frequency Beacons

The 600 Series LF beacons offer all round flexibility for long range or deep water applications.

The series is compatible with all major LF 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 charging and external power switches are similarly external.

#### Key Features

- : Directional or omni-directional
- : Externally configurable for use as Transponder/Responder/Pinger
- : Remote transducer option
- : Transducer protection cage available to reduce accidental damage.
- : Telemetry option - depth information
- : Release option
- : Survival depth options to 6000m



LOWER END CAP



MODEL 663

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**MODEL TYPES - PHYSICAL SPECIFICATION**

Housing material; Hard anodised aluminium

	Beam Pattern	SPL	Diameter	Length	Survival depth	Weight air/water
<b>Model 669</b>	+/- 90°	191dB	125mm	710mm	3000m	15kg/7kg
<b>Model 666</b>	+/- 60°	196dB	125mm	780mm	3000m	15kg/7kg
<b>Model 663</b>	+/- 30°	199dB	125mm	800mm	3000m	15kg/7kg
<b>Model 659</b>	+/- 90°	191dB	178mm*	1100mm	3000m	21kg/11kg
<b>Model 656</b>	+/- 60°	196dB	178mm*	1100mm	3000m	21kg/11kg
<b>Model 653</b>	+/- 30°	199dB	178mm*	1100mm	3000m	21kg/11kg

\* 178mm inc. flange

**ELECTRICAL SPECIFICATION**

**Battery\*\***

Type	Rechargeable NiMH
Listening Life	120 days
Operational life	Dependent on pulse rate Model 669: 100 hours at 1pps Model 666: 50 hours at 1pps Model 663: 50 hours at 1pps Model 659: 200 hours at 1pps Model 656: 100 hours at 1pps Model 653: 100 hours at 1pps

**Configuration**

Transmit frequency range	10 - 16 kHz
Receive frequency range	9 - 12.5 kHz
Turn around time	15/30/60mS dependent on channel
Transmit pulse width	1.5/10mS dependent on channel
Available channels	73

**External Inputs**

Connector type	VSG 4-BCL
Responder key	Positive 5-25 volts
External power	22-35 vdc
AAE charge	Used with AAE 982 Smart Charger or PAM test set
Ground	Common ground

**COMPATIBILITY**

		Available Channels	Transponder/Responder
Tracking System	AAE 2520 PAM	73	Yes
	HPR1507	5	Yes
	HPR400LF	30	Yes
	ORE Trackpoint II	22	Yes
Pinger		12	
Test Channels		3	

**OPTIONS**

Survival depth to 6000m  
 Remote transducer  
 Protection cage  
 Depth sensors; 100m/300m/1000m/2000m/4000m  
 Release Mechanism

**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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