

Applied Acoustic Engineering Ltd

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1600 Series Low Frequency Beacons



1600 Series Low Frequency Beacons offer all round flexibility for long range or deep water applications.

This series is compatible with all major LF tracking systems operating worldwide.

Technical Specification

MODEL TYPES – PHYSICAL SPECIFICATION

Housing material; Hard anodised aluminium with clear protection sleeve (669,666,663) and stainless steel cage

	Beam Pattern	SPL	Survival Depth	Diameter	Length	Weight air/water
1669	±90°	191dB	4000m	130mm	710mm	15.0kg/7.0kg
1663	±30°	199dB	4000m	130mm	800mm	15.0kg/7.0kg

ELECTRICAL SPECIFICATION

Battery

Battery type Rechargeable NiMH

90 days

Listening life

APPLIED ACOUSTICS Underwater Technology An AAE Technologies Group Company

Key Features

- Directional or omni-directional beam pattern, depending on application
- Externally configurable as transponder, responder or pinger
- Can be supplied with remote transducer

Applications

- General purpose tracking and positioning applications
- Static and dynamic operations

1600 Series Low Frequency Technical Specification

Operational life	Dependent on pulse rate and operational mode. (Quoted in Kongsberg HiPAP mode)			
	1669: 100 hours at 1.0pps 1663: 50 hours at 1.0pps			
Configuration				
Transmit frequency range Receive frequency range Turn around time Transmit pulse width Available channels	10 - 16kHz 9 - 12.5kHz 15/30/60ms dependent on channel 1.5/10ms dependent on channel 144			
External Inputs				
Connector type Responder key External power Charge Ground	VSG 4-BCL + 5 to 25 Volts 22 to 35 Vdc@120mA Used with 982 Smart Charger Common ground			

USBL COMPATIBILITY

Kongsberg	HPR/HiPAP
ORE/Edgetech	USBL

OPTIONS

- Compatibility with USBL systems not listed above •
- Non-rechargeable batteries (alkaline) •
- Remote transducer (supplied with Model BCN-1610 electronic bottle); RM90, omni-directional, depth rated to 1500m. RM45, directional, depth rated to 2000m. RM15, directional, depth rated to 4000m. Interconnect cable, 2m standard.
- Survival depth to 6000m •
- Depth sensors 100m/300m/1000m/2000m/4000m (adds D suffix to model number) •
- Floatation collar



Due to continual product improvement, specification information may be subject to change without notice. 1600 Series Low Frequency Beacon/March 2020 ©Applied Acoustic Engineering Ltd.



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