

600 Series Low Frequency Beacons



600 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.

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

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
669	±90°	191dB	3000m	130mm	710mm	15.0kg/7.0kg
666	±60°	196dB	3000m	130mm	780mm	15.0kg/7.0kg
663	±30°	199dB	3000m	130mm	800mm	15.0kg/7.0kg
659	±90°	191dB	3000m	125mm	1100mm	21.0kg/11.0kg
656	±60°	196dB	3000m	125mm	1100mm	21.0kg/11.0kg
653	±30°	199dB	3000m	125mm	1100mm	21.0kg/11.0kg

ELECTRICAL SPECIFICATION

Battery

Battery type Rechargeable NiMH

600 Series Low Frequency Beacon Technical specification

Listening life	669, 666, 663	90 days
	659, 656, 653	120 days
Operational life	Dependent on pulse rate and operational mode. (Quoted in Kongsberg HiPAP mode)	
	669:	100 hours at 1.0pps
	666:	50 hours at 1.0pps
	663:	50 hours at 1.0pps
	659:	200 hours at 1.0pps
	656:	100 hours at 1.0pps
653:	100 hours at 1.0pps	

Configuration

Transmit frequency range	10 - 16kHz
Receive frequency range	9 - 12.5kHz
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	+ 5 to 25 Volts
External power	22 to 35 Vdc@120mA
Charge	Used with 982 Smart Charger
Ground	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-0610 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)

Floataction collar (659, 656, 653)



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