Acoustic Positioning

200 Series Micro Beacons

Designed to provide a SIGNIFICANTLY LOWER COST SOLUTION to positioning in shallow water environments, the NEW AAE 200 Series Micro Beacons will be the Transponders of choice for any application which does not require a high level of output power. Whilst still incorporating many of the ADVANCED FEATURES of our established 900 Series of Transponders, the tiny Micro Beacon simply delivers HUGE ADVANTAGES where integration space is limited.

- **Compatible with most of today's industry standard USBL tracking systems.**
- **Robust 'Survey Grade' transponders designed for real world use.**
- **Combines small volume with long battery life enabling objects to be tracked in applications where use of larger transponders would simply not be possible.**
- **At 1/3 the volume of our standard 919 Mini Beacons, Micro Beacons are ideal for use by divers, on eyeball ROV's and taut wire applications.**
- **The Micro Beacon's slim profile makes it ideal for attachment to a small side-scan towfish or object for improved tracking and target positioning.**
- **Micro Beacons contain easily available, user-replaceable 9v alkaline or lithium batteries.**

TECHNICAL SPECIFICATION

219 Beacon technical specifications:		**229 Beacon technical specifications:**
Depth survival	600 metres	3000 metres
SPL	180 dB typically	183 dB
Beam pattern	Hemispherical	Hemispherical
Operation	Transponder or pinger (not responder)	Transponder or pinger (not responder)
Tracking design range	500 metres (dependant on acoustic conditions)	800 metres (dependant on acoustic conditions)
Battery quantity	2 x 9V	4 x 9V

Beacon standard physical specifications:

Weight in air/water	660g in air / 260g in water	780g in air / 320g in water
Diameter	50mm diameter	50mm diameter
Length	230mm (approx)	290mm (approx)
Housing material - 21x and 22x	Tube: Natural hard anodised aluminium. Transducer: Black Black lower end-cap unscrews for battery change	
Pressure relief valve	User serviceable	

Electrical specifications:

Battery type	500 mA/h Alkaline PP3/6LR61/Duracell MN1604 or Equivalent. Ni-cad and Lithium cells can also be used
Operational life	Alkaline: 30 hours @ 1 pps (6 times longer for Trackpoint II operation) Lithium: Approximately 60 hours @ 1 pps.
Listening life - 21x	Alkaline: 1 month. Lithium: 2 months
Listening life - 22x	Alkaline: 2 months. Lithium: 4 months
Transmit frequency	25 – 32.5 kHz, switch selectable
Receive frequency	16 – 26 kHz, switch selectable
Turn around time (TAT)	15 / 30 ms, switch selectable
Pulse width	1.5/10ms, switch selectable

Compatibility:

Channels/frequencies	HPR300:	14 transponder
	HPR400:	14+56 transponder*
	HiPAP:	56 transponder*
	Sonardyne USBL:	14 transponder
	ORE Trackpoint II:	Any frequency within band
	ORE LXT:	Codes 2 – 5
	AAE PAM	Any frequency within band
Pinger operation	2Hz at any transmit frequency	

* All 56 channels available although 16 preferred, consult manual.

Also Available: 210 Transponders 50mmø x 208mm long including connector, weight in air/water 498g/250g (other specs as for 219 above) and remote transducer RM90/V 50mmø x 75mm long, weight in air/water 376g/160g.

Future Options: Various options planned. This model is just part of our comprehensive range of medium frequency acoustic positioning beacons. Please consult the factory or your local representative for further information.

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APPLIED ACOUSTIC ENGINEERING
Marine House, Marine Park, Gapton Hall Road, Great Yarmouth, NR31 0NL, England
Tel: + 44 (0) 1493 440355 Fax: + 44 (0) 1493 440720
www.appliedacoustics.com email: general@appliedacoustics.com