

ACOUSTIC POSITIONING

150v TFT MIDI-BEACON



These specially engineered 150v variants of our high powered 93x 'Midi' Beacons eliminate the need to recover towed bodies in order to re-charge beacon batteries. By taking its' power from the ORE/GeoAcoustics sidescan sonar and SES Probe 5000 sub-bottom profiler systems, the AAE TFT Beacon offers continuous operation. Should the towfish be lost, the TFT's internal batteries will allow the TFT Beacon to operate independently in order to assist in the recovery of the towed body. For responder operations, the TFT Beacon accepts a TTL type trigger pulse or a tone burst from the SES Probe 5000. Depth telemetry versions are now available.

Two basic types of 150v Midi-beacons:

Model 935 – 150: +/- 45 degrees 200dB 95mmø x 515mm long. 12 hrs at 0.5pps.
 Model 933 – 150: +/- 30 degrees 203dB 95mmø x 515mm long. 12 hrs at 0.5pps.
 Model 930 - 150: Electronics only 95mmø x 475mm long. 12 hrs at 0.5pps.
 Depth rating to 3000 metres

Beacon standard physical specifications:

Weight in air/water 93x 5.5kg/3kg, 930 5kg/2.5 kg plus transducer.
 Housing material Hard Anodised Aluminium.
 ON/OFF switch Rotary in lower end-cap.
 Channel selection switches Rotary in lower end-cap.
 Number of channels 144 available. Some spare.

Electrical specifications:

Battery type Rechargeable NiMH.
 (With 1.3mS pulse, life is 6 times greater-T2 & H'star).
 Listening life 35 days.
 Transmit frequency 27-33 kHz. (Lower frequencies available).
 Receive frequency 17-27 kHz.
 Turn around time 15/30/60 mS, dependant on channel.
 Charging connector XSG-3-BCL.
 Responder key +ve 5 – 25 volts or tone burst on 150v line.
 External power 110–180 vdc @ 80 mA. (AC power optional).
 Rx sensitivity 90 dB re 1 uPa typ.
 Depth Sensors 300m, 500m, 1000m and 2000m.

Remote Transducer:

Size 95mmø x 160mm long (+ connector).
 Weight in air/water 2.2/1.8 kg.
 Source level RM30: 202 – 205dB ± 30°. RM45: 198 – 200dB ± 45°. (75ø).
 RM31: 202dB ± 30° 22-30kHz (75ø).
 Interconnect lead 1.5m typ.

Compatibility:

Channels/frequencies HPR300: 14, transponder/responder.
 HPR400: 14+56, transponder/responder.
 HiPAP: 56, transponder/responder.
 Sonardyne USBL: 14, transponder/responder.
 ORE Trackpoint II: 11, transponder/responder. 5, pinger.
 Emergency Pinger: 37.5 kHz.
 Test Channels: 3.

Options: Y-splice, Responder Interface Box, Higher Source Levels, Alkaline Battery Packs, 24v DC Operation, Chargers and Testers. These models are just a part of our comprehensive range of medium frequency acoustic positioning beacons. Please consult the factory or your local representative for further information. January 2003



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Due to continual product improvement these specifications may be subject to change without notice.