BART BOARD

BURN-WIRE ACOUSTIC RELEASE TRANSPONDER BOARD

FEATURES

- Dual burn wire outputs
- Standard electronics with long history of reliability
- Transponder for positioning and recovery
- Secure command coding
- Can be used with EdgeTech burn-wires or ORCA thermal release

APPLICATIONS

- Underwater command and control.
- Underwater tracking
- Custom moorings
- Oceanographic landers
- Long baseline navigation
- Controlling valves
- Emergency recovery systems

The BART board is a single board designed to function as a complete, single channel acoustic transponder. The BART board requires either the Model 8011M or PACS LF Command/Ranging transceiver. The board comes in two standard layout configurations, either circular or rectangular. Additionally, BART compatible OEM transducers are available from EdgeTech. The BART board can be used to release oceanographic moorings and bottom frames or can be used for long baseline transponder navigation. In addition to these typical applications there are a number of specialized uses for this board, such as controlling the opening and closing valves in underwater systems and as emergency recovery systems.

The Binary Acoustic Command System (BACS) provides 12,000 possible command codes. The Release commands will cause the BART board to apply a voltage to the appropriate burn wire output pins on the End-users bulkhead connector

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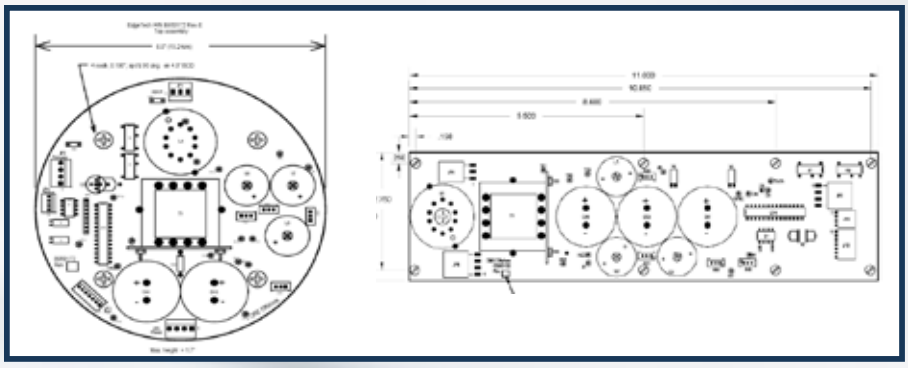
KEY SPECIFICATIONS

ROUND MECHANICAL	
Release mechanism	Dual Release Outputs
Diameter	15.24 cm (6.0")
Height	4.191 cm (1.65")
Weight	.50 kg (1.1 lbs)
Mounting	4, .196 diameter holes (see drawing for locations)
RECTANGULAR MECHANICAL	
Release Mechanism	Dual release outputs
Length	27.94 cm (11.0")
Width	7.62 cm (3.0")
Height	4.19 cm (1.65")
Weight	.50 kg (1.2 lbs)
Mounting	6, 0.120" holes (#4 hardware, see drawing for locations)
ELECTRICAL	
Command frequencies	9.3 kHz to 10.7 kHz
Command codes	BACS commands
Transmit Source Level	192 dB re 1 uPascal-meter
Receiver sensitivity	-100 dB re-1uPascal-meter