Acoustic 10t Release Frame

Key Features

- 10 tonne release capability
- Commanded by 3510 PAM or 2520 PAM, Easytrak Lite or Nexus USBL
- Positive lever drive off with load assist release
- Upgrade option for existing 529P beacons

Applications

- Cable work operations
- Crane and winch wire detachment
- Submerged buoy recovery
- Complementary to lift bag operations

Overview

The 10t Release Frame offers a new method of wirelessly separating an underwater load from its crane. By using acoustics, rather than divers or ROVs with cutting equipment, this method has the potential to both reduce risk and save time.

The Release Frame consists of a heavy duty strong back and lever system that amplifies the load capability of an Applied Acoustics’ 529P Release beacon, and a standard AAE surface control unit, typically a 3510 PAM Portable. Once the load is in position a remote acoustic signal received from the surface unit triggers the hinged hook to open releasing the load, allowing the frame unit itself to be recovered in its entirety for re-use.

Useful for bight release applications in the cable laying and repair industry, this acoustic release frame is also suited for coastal construction operations on wind farm sites, lowering work baskets or other subsea structures, separating lift bags from their loads or as method of marking subsea infrastructures that are at risk of damage from surface activity.
# Technical Specification, Acoustic 10t Release Frame

## HOOK SPECIFICATION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWL</td>
<td>10t (including 4 x factor of safety)</td>
</tr>
<tr>
<td>Operating depth</td>
<td>1000m</td>
</tr>
<tr>
<td>Weight in air</td>
<td>60kg</td>
</tr>
<tr>
<td>Weight in water</td>
<td>40kg</td>
</tr>
<tr>
<td>Overall length</td>
<td>112cms</td>
</tr>
<tr>
<td>Maximum height (inc cage)</td>
<td>120cms</td>
</tr>
<tr>
<td>Material</td>
<td>Weldox 700</td>
</tr>
<tr>
<td>Master link part number</td>
<td>Gunnebo M-1613-10</td>
</tr>
</tbody>
</table>

## 529P ACoustic Release Beacon
- Housing material: hard anodised aluminium

## BATTERY
- Type: Alkaline (Set of 3; Rx, Tx, Motor)
- Listening life: 4 months
- Releases: 70

## TWO-WAY COMMUNICATION
- Frequency: MF, 17 to 32kHz
- Status telemetry: Acknowledge arm, Acknowledge release, Battery
- Commands: Arm, Release, Battery Status, ID Commands, Tilt

## COMPATIBILITY AND CONFIGURATION
- Internally configured
- Command/Control: 16 identities

## TOPSIDE CONTROL, 3510 PAM PORTABLE
- Case size: 390 x 310 x 170mm
- Weight: 5kg
- Temperature: Storage -20°C to +60°C, Operation 0°C to +40°C
- External power supply: Input 100-240Vac, 50-60Hz, Output 24Vdc
- Battery life: 6 hours

## 3190 DUNKING TRANSDUCER
- Robust stainless steel transducer with integral cable and transducer protection cage. Operation subsea with ranging, relocation, acoustic release and telemetry.
- Size: 100mm Ø x 276.5mm excluding cable relief
- Weight: 8.5kg
- Cable length (attached): 30m standard
- Depth rating: 50m

## COMPATIBILITY
- 3510 PAM Portable, 2520 PAM
- Easytrak Lite
- Easytrak Nexus

**In partnership with**

---

Due to continual product improvement, specification information may be subject to change without notice. Acoustic Bight Release Hook/Dec 2016

©Modulus Technology Ltd.