

## Datasheet

# Sub-Mini Transponder/Responder (Discontinued)



### Description

Since 1975, Sonardyne have been developing and manufacturing reliable position reference beacons for ROVs, towfish and other mobile targets.

The Types 7656 and 7866 Sub-Mini Transponder/Responders represent the latest design developments and are compatible with both Sonardyne USBL and L/USBL systems and Simrad HPR systems. With these beacons, targets can be tracked deeper and at further ranges than ever before.

### Key Features (Type 7656)

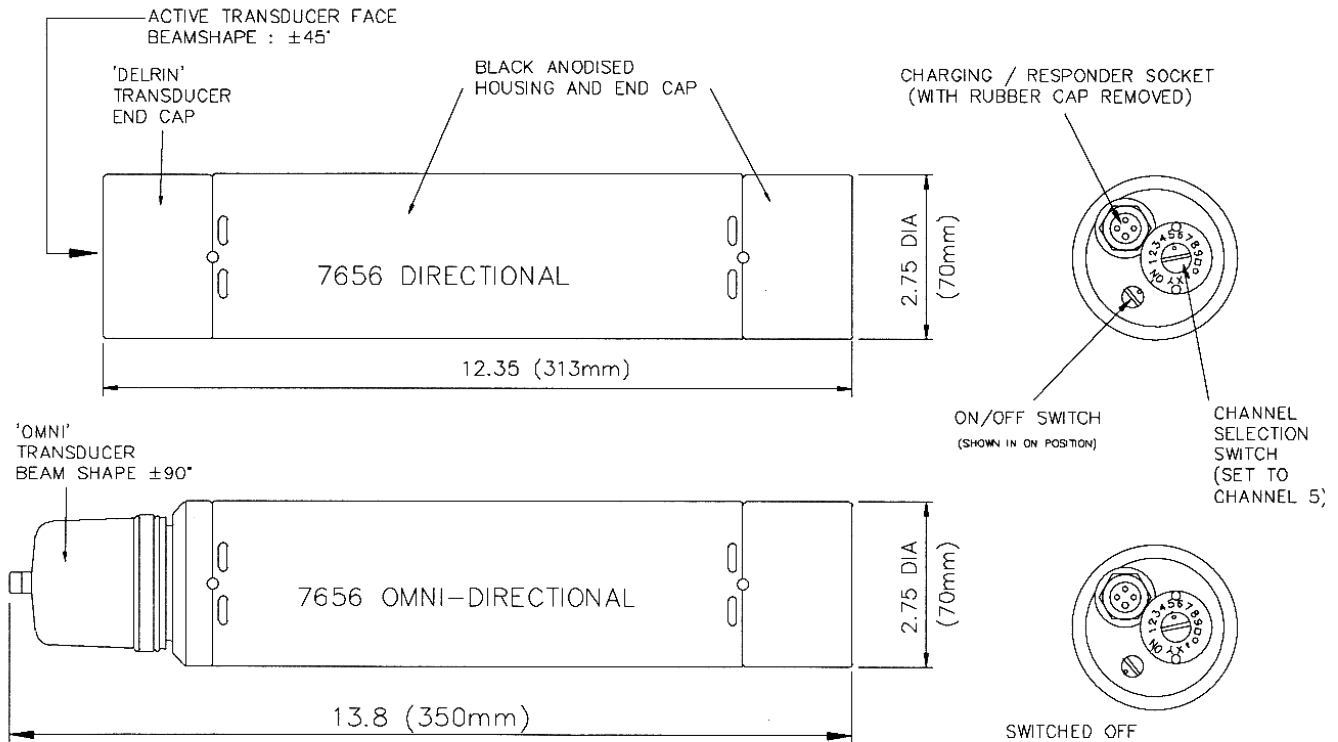
- Depth rated to 1,000 Metres
- Choice of Omni-Directional or Directional transducer
- Responder trigger, power supply and charger connector are Simrad compatible
- External switch selects HPR channel
- External on/off switch

### Key Features (Type 7866)

- Depth rated to 4,000 Metres
- High power Directional transducer
- Compact and rugged design
- External switch selects HPR channel
- External on/off switch
- Unlimited replies in responder

# Specifications

## Sub-Mini Transponder/Responder (Discontinued)



| Feature                           | Type 7656                      | Type 7956                      | Type 7866                                   |
|-----------------------------------|--------------------------------|--------------------------------|---|
| Depth Rating                      | 1,000 Metres                   | 1,000 Metres                   | 3,000 Metres                                |
| Operating Frequency Channels      | Simrad 1~9                     | Simrad 1~9                     | Simrad 1~9                                  |
| Transducer Beamshape              | Omni-Directional               | Omni-Directional               | Directional                                 |
| Transmit Source Level             | 188dB re 1µP @1m               | 193dB re 1µP @1m               | 200dB re 1µP @1m                            |
| Receive Sensivity                 | 100dB re 1µP @ 1m              | 100dB re 1µP @1m               | 100dB re 1µP @1m                            |
| Transmit Beam                     | ±90°                           | ±45°                           | ±30°  |
| Max. Repetition Rate              | 2 Per Second                   | 2 Per Second                   | 2 Per Second                                |
| Power                             | Ni-Cad                         | Ni-Cad                         | Ni-Cad                                      |
| Quiescent Life                    | 30 Days                        | 30 Days                        | 30 Days                                     |
| Externally Powered                | Indefinite                     | Indefinite                     | Indefinite                                  |
| Mating Connector                  | VMG-4-FS                       | VMG-4-FS                       | VMG-4-FS                                    |
| No. of Replies (Transponder Mode) | 70,000                         | 10,000                         | 17,000                                      |
| Dimensions (LxDia)                | 347mm (13.6") x<br>72mm (2.8") | 313mm (12.3") x<br>70mm (2.7") | 386.1mm (15.1") x<br>86.1mm (3.3") w/sleeve |
| Weight in Air                     | 1.8kg                          | 2kg                            | 4.2kg                                       |
| Weight in Water                   | 0.9kg                          | 1kg                            | 1.2kg                                       |