

# RF-700AR

VHF RADIO LOCATING SYSTEM

Remote head for maximum flexibility

Self-contained Submersible to 7,300m

FCC approved



## NOVATECH - PROVEN THROUGHOUT THE OCEANS

The RF-700AR is a self-contained submersible Radio Beacon designed to assist in the location and recovery of underwater assets and oceanographic equipment.

The RF-700AR is equipped with a remote head and it may be submerged for long periods in ocean depths to 7300 meters (24,000 feet). The activation of the RF-700AR is completely automatic, when submerged below 10 meters it is OFF and at the surface it is ON.

At the surface the beacon transmits a pulsing RF signal for approximately 8 days.

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# NOVATECH RF-700AR

## VHF RADIO LOCATING SYSTEM

### Features

Self-contained, submersible radio beacon with remote head

- Remote head for maximum flexibility
- Submersible to 7,300m
- Detectable from four to eight nautical miles
- FCC approved
- Pressure-activated on/off switch with manual override

### Technical Specifications

#### Physical

|                         |                                                            |
|-------------------------|------------------------------------------------------------|
| Size (pressure case)    | 18.5 x 1.7" (47 x 4.3 cm)                                  |
| Weight (with batteries) | In water 2.1 lb. (.95 kg)<br>In air 3.6 lb. (1.6 kg)       |
| Exterior Construction:  |                                                            |
| Case                    | Hard anodized aluminum                                     |
| Antenna Cap             | Brass core with molded neoprene rubber on exterior surface |

#### Power

|                     |                                                                                                                                     |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| On/Off Control      | Pressure-activated switch turns flasher on at surface, off at depths below approx. 33' (10 m).<br>Manual override by rotating knob. |
| Batteries           | 4 "C" cell alkaline                                                                                                                 |
| Battery Life at 4°C | 8 days                                                                                                                              |

#### Transmitter

|                         |                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------|
| Output                  | 100 milliwatts, pulse 1 KHz FM                                                                   |
| Duty Cycle              | Approx. 33%, 2 sec. on, 4 sec. off                                                               |
| Harmonics               | -40db minimum                                                                                    |
| Frequency Range:        | Channel A 154.585 MHz<br>Channel B 159.480 MHz<br>Channel C 160.725 MHz<br>Channel D 160.785 MHz |
| FCC Identification      | FOX4ZLRF700AR                                                                                    |
| Canadian Identification | 9084 (Technical Acceptability No.)                                                               |
| Range                   | 4 to 8 nmi                                                                                       |
| Antenna                 | Field replaceable 17.25" 1/4 wave whip, zinc anode protected                                     |

#### Environmental Elements

|                        |                                |
|------------------------|--------------------------------|
| Operating Temperatures | -40° to +140°F (-40° to +60°C) |
| Ocean Depth Rating     | Approx. 24,000' (7,300 m)      |



### Data collection and communication experts

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