

# MMB-1000

- Miniature VHF radio beacon
- Detectable from up to 5 nautical miles
- Compact, self-contained submersible to 1,000 meters
- 8 user selectable transmit frequencies



TRACKING & MONITORING

NOVATECH™ products have been proven throughout the world's oceans and trusted around the globe for over 40 years.

The NOVATECH™ MMB-1000 is a small form-factor, lightweight, self-contained VHF radio locator beacon. Introduced as part of the new Mini-Beacon line, the MMB-1000 has been added to the NOVATECH™ family of asset recovery devices. The new digital circuit controller offers selectable preset frequency channels, along with a range of duty cycle options, resulting in a beacon that can be configured for a range of broadcast specifications.

Powered with Lithium, this miniature recovery aid is designed for long term ocean deployments (up to 5 years submerged), with enough power to transmit for up to 20 days once surfaced. The Mini-Beacon housing includes an integrated conductivity sensor that isolates the unit's power while submerged and activates the device upon surfacing.



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# MMB-1000

## TECHNICAL SPECIFICATIONS

### PHYSICAL

- Diameter: 1.13" (29 mm)
- Height: 14.60" (370 mm)
- Mass in air (with batteries): 0.45kg / 1.00 lb
- Mass in water (with batteries): 0.29kg / 0.63 lb

### CONSTRUCTION

- Hull material: Aluminum 6061-T6 with powder coat finish
- Cap material: Aluminum 6061-T6 with powder coat finish
- Lens material: Polycarbonate
- Color: International Orange

### POWER

- Battery: 7x CR123A Lithium
- On/Off Control: Magnetic reed switch
- RF Control: Dip switch
- Activation: Surface sense conduction
- Battery Life (at 4°C): Approx. 20 days upon surfacing
- Daylight OFF functionality: Approx. 20 days upon surfacing

### RF TRANSMITTER

- Output: 50mW maximum; 1, 2, 3 or 4 sec. pulse 00K
- Duty Cycle: 17% or 10%
- Harmonics: -40db minimum
- User Selectable Frequency Range Option 1: 154.585, 159.480, 160.725, 160.785 MHz
- User Selectable Frequency Range Option 2: 159.150, 159.200, 159.250, 159.300 MHz
- FCC Certified
- Detectable Range: Up to 5 nautical miles

### OPERATIONAL

- Temperature: -40°C to 60°C (-40°F to 140°F)
- Maximum Depth: 1,000 m (3,280 ft)
- Operating Life: 20 days at 33% (2s Tx, 4s Off) duty cycle, 5 years underwater (factory settings at 20°C)

### STORAGE

- Temperature: -40°C to 60°C (-40°F to 140°F)
- Life: 10 years at 25°C, 90% capacity