

# MMB-7500

- Miniature VHF radio beacon
- Detectable from up to 5 nautical miles
- Compact, self-contained submersible to 7,500m
- 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-7500 is a deep rated, miniature form-factor, lightweight, self-contained VHF radio locator beacon. Introduced as part of the new Mini-beacon line, the MMB-7500 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. The Mini-Beacon housing includes an integrated conductivity sensor that isolates the unit's power while submerged and



**metOcean™**  
telematics

21 Thornhill Drive, Dartmouth, Nova Scotia B3B 1R9 CANADA  
Tel: +1 902 468-2505 | Email: sales@metocean.com

[metocean.com](http://metocean.com)

# MMB-7500

## TECHNICAL SPECIFICATIONS

### PHYSICAL

- Diameter: 1.14" (29 mm)
- Height (without antenna): 14.68" (373 mm)
- Height (with antenna): 21.23" (539 mm)
- Mass in air (with batteries): 0.68 kg (1.50 lb)
- Mass in water (with batteries): 0.46 kg (1.00 lb)

### CONSTRUCTION

- Hull Material: Titanium (Grade 2)
- Cap Material: Titanium (Grade 5)
- Lens Material: Polycarbonate / Epoxy
- Color: Natural

### POWER

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

### RF TRANSMITTER

- Output: 50mW maximum, 1, 2, 3 or 4 sec. pulse OOK
- 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: 7,500 meters (24,600 ft)
- Operating Life: 20 days at 33% (2s Tx, 4s Off) duty cycle,  
5 years underwater

### STORAGE

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