

RF-700A1



2025-05 v1

NOVATECH™ has been trusted worldwide for over 40 years.

The NOVATECH™ RF-700A1 is a self-contained submersible Radio Beacon, designed to assist in the location and recovery of underwater assets and oceanographic equipment.

RF-700A1, designed for long duration deployments, is suitable for operation at depths of 7,300 m (24,000 ft). The RF-700A1 is activated by a pressure switch which enables the unit to automatically power OFF below 10 m and activate upon surfacing.

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

- Automatic Activation: OFF when submerged below 10 m, and ON at the surface
- Pressure activated ON/OFF switch with manual override
- Transmits a pulsing RF signal for approx. 8 days at surface
- Detectable up to 8 nautical miles
- Self-contained submersible to 7,300 m
- FCC approved



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RF-700A1 TECHNICAL SPECIFICATIONS

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PHYSICAL	
Diameter	43 mm (1.7")
Height	470 mm (18.5")
Mass in air (with batteries)	1.6 kg (3.6lb)
Mass in water (with batteries)	0.95 kg (2.1 lb)
CONSTRUCTION	
Hull Material	Hard anodized aluminium
Antenna Cap Material	Brass core with molded neoprene rubber on exterior surface
POWER	
Batteries	4 "C" cell alkaline
Battery Life (at 4°C)	8 days
ON/OFF Control	Pressure-activated switch turns flasher on at surface, off at depths below approx. 10 m (33')
OPERATIONAL	
Operating Temperature	-40°C to 60°C (-40°F to 140°F)
Ocean Depth Rating	Approx. 7,300 m (24,000 ft)
RF TRANSMITTER	
Output	100 milliwatts, pulse 1 KHz FM
Duty Cycle	Approx 33%, 2 sec. on, 4 sec. off
Harmonics	-40 db minimum
Frequency Range	154.585, 159.480, 160.725, 160.785 MHz, additional frequency options available
Canadian Identification	9084 (Technical Acceptability No.)
Range	4 to 8 nautical miles
Antenna	Field replaceable 17.75" 1/4 wave whip, zinc anode protected (AN-703)
FCC Certified	

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