



## Rugged Buoy

**THE IN-SITU RUGGED BUOY IS A RELIABLE, COST-EFFECTIVE MONITORING PLATFORM FOR LONG-TERM DEPLOYMENTS OF INSTRUMENTATION AND TELEMTRY IN POND, LAKE, BAY, RIVER AND COASTAL NEAR-SHORE ENVIRONMENTS.**

Saltwater-resistant construction and UV-resistant materials stand up to the harshest conditions, while self-righting features protect deployed equipment and ensure continuous data collection. Users can customize their deployment depth and collect data at multiple depths with a single platform. At just 35 pounds, the buoy meets size and weight limitations for standard shipping rates and can be deployed by a single technician. And a collapsible, roll-resistant design simplifies storage and transport. The buoy is designed to hold In-Situ multiparameter instruments and telemetry and is compatible with all instrumentation, communications, cables and software in In-Situ's shared ecosystem for streamlined setup and low-maintenance deployment.

### **Adjustable-Depth Deployment**

Select the right depth for your deployment in adjustable two-inch increments between .3 m and 1 m. The adjustable depth well is load bearing so an anchor system can be attached to the lowest point on the buoy. Monitor at even greater depths by hanging instruments from the mooring line and connecting a cable to the telemetry device in the buoy.

### **Easy to Deploy**

At just 35 pounds, the Rugged Buoy is easy to lift and lower single-handedly. Convenient shoulder straps and handles make it easy for one person to deploy and retrieve the unit.

### **Enhanced Reliability**

Saltwater-resistant construction and UV-resistant materials protect the buoy in harsh conditions. The foam-filled float will not lose buoyancy, even if damaged.

### **Standard Shipping Size**

The Rugged Buoy is designed to meet size and weight limitations for standard shipping rates.

### **Fully Self-Righting**

The Rugged Buoy will self-right regardless of inversion angle when deployed with a mooring chain or rope.

### **Roll-Resistant Design**

A faceted float keeps the buoy stabilized in transport and on its side.

### **Applications:**

- CONTINUOUS COSTAL MONITORING
- CONTINUOUS SURFACE WATER MONITORING
- HARMFUL ALGAL BLOOM MONITORING
- DREDGING MONITORING
- PROFILING
- SOURCE WATER MONITORING

TECHNICAL SPECIFICATIONS	
OPERATING TEMP. (NON-FREEZING)	-5° to 60° C (23° to 140° F)
STORAGE TEMP.	< 60° C (140° F)
DIMENSIONS & WEIGHT	Float outer diameter: 53.3 cm (21 in) Inner diameter of well: 13 cm (5.1 in) Total height, collapsed (without beacon): 100.6 cm (39.6 in) Total height, fully extended (without beacon): 166.6 cm (65.6 in) Height above water line: 61 cm (24 in) Depth below water line: 39.6 to 105.7 cm (15.6 to 41.6 in) Large shackle jaw opening: 1.6 cm (.63 in)
WEIGHT	15.4 kg (34 lbs)
MATERIALS	Anodized aluminum, polyethylene, polyurethane foam, nylon, 316 stainless steel, polycarbonate film, tubular nylon webbing
NET BUOYANCY	32.2 kg (71 lbs)



Sliced View



Extended View



Top Open View