



SOLE SOURCE JUSTIFICATION

EMM68 BUOY

SYSTEM OVERVIEW

The EMM68 buoy is a compact, robust monitoring system designed for reliable performance in the toughest conditions. The EMM68 is the perfect buoy for inland waters, estuary, and near coastal applications. The marine grade materials utilized in the EMM68 provide years of operational integrity. The EMM68 weights a total of 48 Kgs (105lbs) and is made of high quality components. The sensor deployment tube is manufactured from 304 stainless steel which is electropolished for a high shine and has machined flow holes allowing proper water flow across the faces of most water quality sensors. The deployment tube is also lockable to secure your valuable water quality sensors. The buoy also includes a 304 stainless steel impact resistant bumper ring, designed to protect the system from potential boat collisions or other floating debris impacts. The electronics canister, which can house most data logging systems on the market, along with power management and telemetry devices, is located at the top of the buoy and can mount an optional navigation beacon. The EMM68's compact design doesn't mean it's limited on power, with 20 watts of combined solar panels and a 12v, 24ah power system, it has enough for long term monitoring in even the most remote locations. Lastly one key feature of the EMM68 is the hull material which is closed-cell Ionomer™ Foam, which is unsinkable.

FEATURES AND SPECIFICATIONS

1. The buoy hull shall be manufactured from impact resistant, closed cell, Ionomer Foam.
2. The fender shall be manufactured from Stainless Steel for impact protection.
3. The instrument shall be equipped with a Stainless Steel, lockable, integral deployment tube for use with water quality sensors.
4. The instrument shall come standard with two 10 Watt solar panels with solar regulator.
5. The instrument shall come standard with 12 VDC, 24 amp hour battery system.
6. The polyurethane electronics enclosure shall be capable of mounting data loggers and telemetry.
7. Choice of two data loggers shall be available: Campbell CR Logger, WaterLog Storm3 Web-Enabled Data Logger
8. The electronics enclosure shall be hinged for easy access to the water quality sensors, cables, and connectors.
9. The instrument shall be compatible with an internal or external antenna system.
10. Integral underwater cable assembly shall be included for any YSI EXO or 6-Series water quality sonde.
11. The instrument shall be capable of having two point or single point mooring options.
12. The instrument shall be capable of operating in depths as shallow as 1.8 meters.
13. The instrument shall be equipped with an expandable payload to easily accommodate additional water quality sensors.
14. The instrument can be serviced without the need for divers.
15. The instrument shall be yellow in color to signify an environmental monitoring system.
16. The instrument shall come standard with marine-grade underwater connectors.
17. The instrument shall be equipped with a mounting plate for a self-contained beacon or external antenna assembly.
18. The instrument shall be capable to be deployed from a small boat by two people.
19. The instrument shall be lightweight, not to exceed 48 kg (105 lb) in the air.

