

EMM150 Buoy

QUICK AND EASY ACCESS TO WATER QUALITY DATA

The EMM150 buoy provides a quickly deployable water quality monitoring platform with remote telemetry. The system can be lifted into place by two people, reducing deployment and maintenance costs—while still maintaining a secure buoy that is difficult to steal or vandalize. And the entire system can be installed without divers, allowing for complete serviceability from a small boat or watercraft.

Collect data in waters that were previously out of reach. The EMM150 buoy is an economical alternative to obtaining site access to install permanent fixtures on bridge pilings and piers.

Receive Remote Data

Multiple data delivery systems available to send data from any YSI sonde. Data can be delivered to a base station computer via cellular, radio, or satellite; while the web-enabled option posts data directly to a public or private web site, or access web-hosted data from many devices with internet access. Systems can also be setup to provide user defined alerts.

Advantages of Remote Data Delivery:

- Save you unnecessary trips into the field, reducing operating costs
- Make you aware of changing conditions as they occur, improving response time
- Match your calibration and maintenance schedules to actual sensor performance, reducing consumables

Ideal for monitoring in these applications:

- Baseline studies
- Construction and dredging
- Dye-tracing studies
- Emergency response
- Fisheries
- Industrial sites
- Non-point source/TMDL
- Point source/discharge
- Stormwater & CSO
- Source water
- University/research

Custom systems available:

Contact YSI's Integrated Systems & Services division to discuss your specific monitoring application. We offer a variety of buoy platforms which can be tailored to fit your needs. Our other systems are suited for deployment in high-energy environments and for long-term monitoring projects

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Let's Solve Water



EMM150 Buoy supports a single water quality instrument, such as a YSI EXO, positioned inside the subsurface pipe.



The EMM150 Buoy is lightweight and easy to deploy from shore to small boat, shown here with two tubes.

EMM150 Buoy Specifications

Weight	68 kg (150 lbs)
Mooring	Single, two or three point (sold separately)
Beacon	Flashing amber, SolaMAX-65T
Solar	Integrated 4 x 8.5W
Battery	Standard 12V/18Ah lead acid
Antenna	Integral cellular antenna standard; waterproof external antenna optional
Float	Impact-resistant, closed cell ionomer foam
Tube	Single or dual sub-water tubes for sonde deployment
Sensor Payload	A YSI water quality sonde can include temperature, fDOM, conductivity, blue-green algae, chlorophyll, dissolved oxygen, ORP, pH, rhodamine, and turbidity. Can accommodate water velocity and meteorological sensors Integration with 3rd party sensors is also available
Software	One copy of base-station software required for entire monitoring network; priced separately
Telemetry	CDMA through Verizon®, GSM circuit-switched data or GPRS (consumer specifies coverage and signal strength at site when ordering)
Deployment	Min. water depth: 1.8 meters Max. operational currents: 2 knots Max. rolling wave height: 1 meter

Just a few steps to data collection:

- Activate cellular modem and account
- Install base station software on computer with unrestricted internet access
- Test communications in lab
- Source and install mooring lines and weights
- Deploy buoy in appropriate location
- Maintain sensors and equipment on a regular basis



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