

## Sole source justification

HydroRIG | Data gateway from YSI



### System overview

HydroRIG is a rugged, secure, and intelligent gateway designed to seamlessly connect to your sensors.

Encased in a durable IP-50-rated enclosure with an integrated modem, HydroRIG combines the functionality of a traditional data logger and modem into a single, all-in-one environmental telemetry system.

HydroRIG supports rapid deployment with quick-disconnect terminal blocks, a button to establish connection with a single push, and pre-configured sensors in HydroSphere.

Compatible with any Xylem sensor and most third-party sensors, HydroRIG leverages advanced technology and security protocols to safeguard your data. Fully integrated with HydroSphere, HydroRIG provides seamless access to your data from any computer or mobile device, ensuring you stay connected and informed wherever you are.

### HydroRIG

Remote intelligent gateway

### Application

Environmental monitoring

### Description

Connect environmental sensors to HydroRIG for remote monitoring. Transmit measurement data to HydroSphere for visualization and analysis.



## Features and specifications

1. The gateway shall be able to be deployed within 15 minutes given quick-disconnect connectors and terminal blocks.
2. The gateway shall be able to support multi-sensor connectivity—up to 15 sensors.
3. The gateway shall natively interface with Xylem sensors as well as third-party sensors.
4. The gateway shall provide cellular telemetry options for most areas and budgets.
5. The gateway shall easily integrate into most customer-supplied systems like buoys and enclosures.
6. The gateway shall provide remote access to your data, functioning as a data logger and modem, all-in-one.
7. The gateway shall provide power to external sensors.
8. The gateway will occupy a small form factor with the use of DIN Rail Mounts.
9. The gateway shall support camera options.
10. The gateway shall be equipped with an internal GPS.
11. The gateway shall interface with YSI's data visualization platform, HydroSphere, for customizable interaction with your data.
12. The gateway shall provide 32 MB of data storage capacity.
13. The gateway shall use a Micro USB for communication needs.
14. The gateway shall be in a housing no larger than 19.05 x 11.43 x 6.99 cm.
15. The gateway shall operate and be stored in a temperature range of -25 to 60 °C (-13 to 140 °F).
16. The gateway shall have a voltage input of 9 to 16 VDC.
17. The gateway shall be equipped with a full spectrum LED status array.
18. The gateway shall be housed in an IP 50-rated enclosure.
19. The gateway shall provide a choice between LTE CAT-1 or LP-WAN CAT-M1 worldwide cellular modems.
20. The gateway shall optionally provide satellite external modem support, using GOES.
21. The gateway shall utilize a secured Amazon Web Services (AWS) Data Center.
22. The gateway shall be covered under a 24-month limited manufacturer's warranty of defects and workmanship.



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