







HydroRIG

A remote intelligent gateway that connects field data to the cloud for easy real-time monitoring





HydroRIG is an innovative remote intelligent gateway that enables real-time data from environmental sensors. Whether you're monitoring multiple remote streams in a watershed, a reservoir that supplies a large metropolitan area, or a controlled laboratory study, HydroRIG provides a secure connection to your data. Pair HydroRIG with <u>HydroSphere</u> for simplified remote data collection, management, and sharing.

Benefits of HydroRIG



Remote data access

All-in-one device that replaces a traditional data logger and modem

Fast & simple deployment Deploy in under 15 minutes with minimal configuration using a pre-loaded sensor library

Broad sensor compatibility Works with all Xylem sensors and most third-party sensors



Reliable connectivity

99.9+% uptime and multiple cellular telemetry options to suit various locations

Simplified data management

Quickly connect with HydroSphere for streamlined data management



Small footprint, big impact

The small form factor allows HydroRIG to be easily integrated into most systems

Benefits of HydroSphere



HydroSphere is a scalable collaborative data visualization platform for outdoor water monitoring. Empower your organization and all data stakeholders.

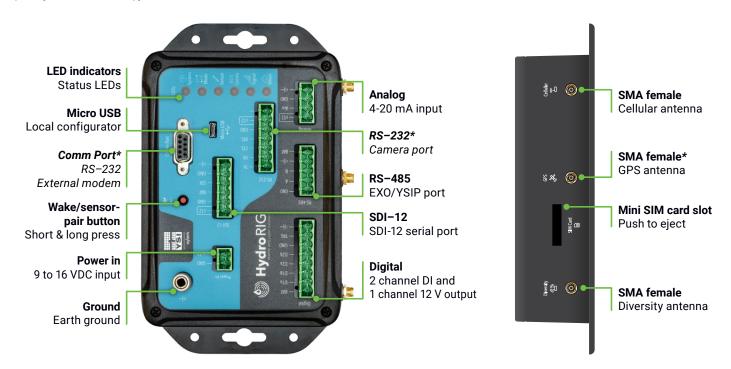
- **Tell your data's story** with customizable graphs, tables, and dashboards
- **Never miss an event** with data-driven alarms and customizable escalation
- Define roles and access to your data with personalized credentials for each user



- Build networks of monitoring sites
- Create public websites for the visualization of curated data

Communication ports

HydroRIG is compatible with a wide variety of environmental sensors, so you can get all your data at once, from water quality, to meteorology, flow, level, and more.



Connect your data to the cloud

HydroRIG streamlines data upload to HydroSphere, making it ideal for even the largest site networks.



*The internal GPS, RS-232 port, and external Comm port functionalities are currently in development and will not be available at launch. Please visit YSI.com/HydroRIG for the current list of features.

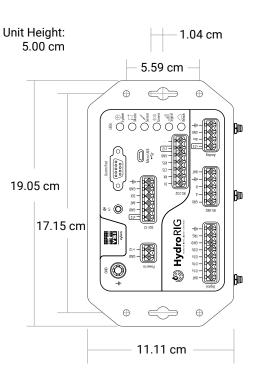
Specifications

Physical

Housing dimensions	19.05 x 11.11 x 5.00 cm (7.50 x 4.38 x 2.00 in)
Shipping weight	0.45 kg (1 lb)
Housing material	Plastic
IP Rating	IP 50-rated enclosure
Warranty	24 months

Measurements

	Channel	1 analog input channel for a 4-20 mA device
Analog input	Accuracy	+/- 0.1% FS
	Range	0 to 20 mA
Switched +12.0 volt excitation	Туре	Regulated 12 V
	Current	1 A max load, protected by electronic fuse
Digital I/O	Channels	2 digital inputs, 1 digital output
	Input levels	0 to 12 V High = 7 to 16 V Low = 0 to 3 V
	Output Levels	Regulated 12 V, source 1 A max, protected by electronic fuse
	Connector	8 pin header
SDI-12	Mode	Ver 1.4
	Connector	6-pin D connector, male
RS-232* (optional external modem)	Туре	Single RS-232 configured as a DTE device
	Connector	9-pin D connector, male
	Baud rate	Programmable
RS-232* (camera port)	Туре	Single RS-232 configured as a DTE device
	Connector	7-pin D header, male
	Baud rate	Programmable
RS-485	Туре	Single RS-485 port
	Connector	5-pin D header, male
GNSS	Compatible systems	GPS, GLONASS
	Connector	SMA - female



Communication					
USB	Туре	Micro USB			
USB	Version	USB version 2.0			
Cellular modem	Туре	CAT-1 or CAT-M1			
External satellite*	Туре	GOES, Iridium			
Power					
Requirements	/oltage input	9 VDC to 16 input			
Connection (Connector	2-pin D connector, male			
Memory					
General Data buffering capacity 32 MB					
Environmental					
	Operating	-25 to 60 °C (-13 to 140 °F)			
Temperature	Storage	-25 to 60 °C (-13 to 140 °F)			

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YSI Incorporated 1725 Brannum Lane Yellow Springs, OH 45387 Tel +1 937.767.7241 Email info@ysi.com **YSI.com**





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