





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 HydroSphere 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

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

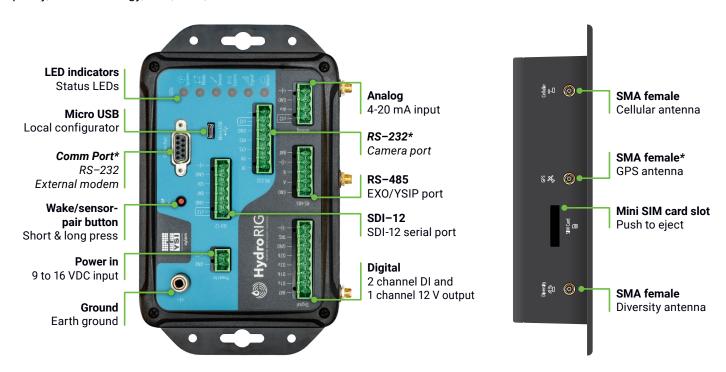
- Tell your data's story with customizable graphs, tables, and dashboards
- Never miss an event with data-driven alarms and customizable escalation
- Define roles and access to your data with personalized credentials for each user



- 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.

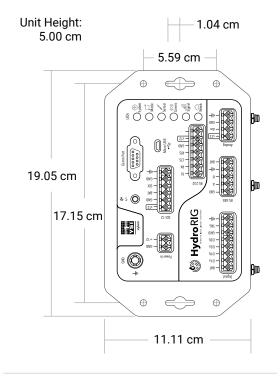
Specifications

Physical

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Housing dimensions	19.05 x 11.11 x 4.45 cm (7.50 x 4.38 x 1.75 in)
Shipping weight	0.45 kg (1 lb)
Housing material	Plastic
IP Rating	IP 50-rated enclosure
Warranty	24 months

Measurements

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	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	Туре	Regulated 12 V
excitation	Current	1 A max load, protected by electronic fuse
	Channels	2 digital inputs, 1 digital output
Digital I/O	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
	Туре	Single RS-232 configured as a DTE device
RS-232* (camera port)	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	Voltage input	9 VDC to 16 input
Connection	Connector	2-pin D connector, male

Memory

General	Data buffering capacity	32 MB	

Environmental

Temperature	Operating	-25 to 60 °C (-13 to 140 °F)
	Storage	-25 to 60 °C (-13 to 140 °F)

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