

The image shows the NexSens G2-Hydromet weather and water quality monitor. It consists of a white cylindrical main body mounted on a silver 2-inch NPT pipe. At the top is an Airmar weather sensor. A solar panel with a GANZ logo is attached to the side of the main body. The background is a scenic view of a river or lake with a forested hillside under a cloudy sky.

# G2-HYDROMET

## WEATHER AND WATER QUALITY MONITOR

- Integrated weather sensor for meteorological data
- Optional water quality or level sensor
- Real-time data and alert notifications
- Web portal for access to live and historic data
- Low maintenance and remote configuration

The NexSens G2-HYDROMET System is an integrated weather station with water quality and level capability. The system measures, logs and transmits wind speed, wind direction, air temperature, barometric pressure and humidity. An optional YSI EXO3 sonde provides a complete suite of water quality measurements. Alternatively, a vented pressure sensor can be integrated for accurate water level data.

G2-HYDROMET is configured through the cellular network using a web browser. Data is wirelessly transmitted to a personalized WQData LIVE web datacenter. Configurable text or email alerts provide real-time notifications to any mobile device or computer. Historical data can be viewed, graphed and downloaded for further analysis.

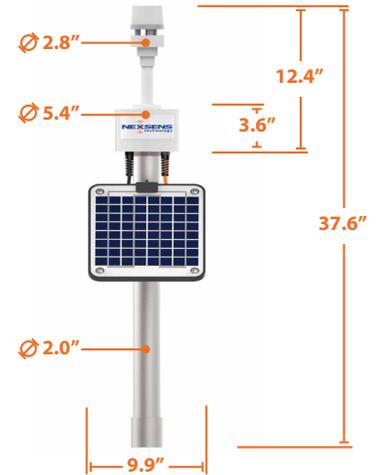
With an included solar power pack, data logger, cellular modem and weather station all pre-mounted to a 2" NPT pipe, the G2-HYDROMET can be configured and deployed in just a few minutes. The complete system simply screws onto a 2" diameter pole with NPT pipe threads. All power and sensor cable connections are made using waterproof connectors - no wiring or complicated programming is required.

# G2-HYDROMET

WEATHER AND WATER QUALITY MONITOR

## specifications

G2-HYDROMET	
Mount	2" NPT pipe thread
Material	Aluminum body with white powder coat finish
Weight	23.0 lbs.
Dimensions	9.9" width, 37.6" height
Temperature Range	-25 to 55°C
Rating	IP65
Memory	Over 20M data records before rollover (Over 50 years with 10 parameters and a 30 minute interval)
Power Pack	6W solar panel with 12V 6AHr SLA battery
Power Connector	NexSens UW-6
Sensor Connector	NexSens SensorBUS UW-8
Communication	NexSens hosted Verizon 4G cellular modem
Transmission Trigger	Parameter threshold, time-based
User Interface	NexSens WQData LIVE 2.0 web portal
Log Interval	User configurable from 1 minute (30 minute default) <sup>1</sup>
User Parameters	Meteorology: Wind speed, wind direction, air temperature, barometric pressure, relative humidity Hydrology: Optional APG PT500 (level, pressure, temperature) or YSI EXO3 Sonde (temperature, depth, conductivity, pH, DO, turbidity, chlorophyll, BGA, and more possible)
Diagnostic Data Parameters	Input power, internal pressure, internal temperature, internal humidity, cell signal strength, cell module power, processor power, processor current, RTC power, cell module current, cell status



Included Airmar 110WX Weather Station			
PARAMETER	RANGE	RESOLUTION	ACCURACY
Wind Speed	0 to 90 MPH	0.1 MPH	Low wind (0-11.5 MPH): 1.1 MPH + 10% of reading <sup>2</sup> High wind (11.5-90 MPH): 2.3 MPH or 5%, whichever is greater <sup>2</sup>
Wind Direction	0 to 360°	0.1°	Low wind (4.6-11.5 MPH): 5° RMS typical <sup>2</sup> High wind (>11.5 MPH): 2° RMS typical <sup>2</sup>
Air Temperature	-40 to 131°F	0.1°F	+/- 2°F @ >4.6MPH wind
Barometric Pressure	24 to 33 inHg	0.029 inHg	+/- 0.029 inHg when altitude correction available
Relative Humidity	10 to 95%	N/A	+/- 5%

<sup>1</sup> System power consumption and availability vary based on configuration and location. Please utilize the Power Calculator to determine application specific requirements.

<sup>2</sup> Valid for 32-131°F with no precipitation. Outside these conditions accuracy decreases.

## parts list

Part #	Description
G2-HYDROMET	Cellular weather station with hydrological sensor input
VZ-5MB-M	Verizon cellular data service with 5 MB monthly allowance & static IP address, priced per month
VZ-5MB-Y	Verizon cellular data service with 5 MB monthly allowance & static IP address, priced per year
EXO3	Multi-parameter water quality sonde with user selected options
UW-EXO-x	UW to EXO sonde cable adapter, configurable length
PT-500-UW	Submersible pressure transducer with UW connector



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