



G2-RAIN

ALERT SYSTEM

- Rainfall notifications on smartphone or computer
- Streamlined design with integrated mount
- Accurate measurements at varying intensities
- Web portal for access to live and historic data
- Low maintenance and remote configuration

The NexSens **G2-RAIN** Alert System is a self-contained rain monitor with an integrated precision rain gauge and real-time data alerts. It transmits accurate rainfall measurements directly to **WQData LIVE**'s cloud based data management platform using internal power and an embedded cellular modem. Paired with **WQData LIVE**'s configurable alerts, users are notified of rain events directly on a mobile device or computer. Historical rain data can be viewed, graphed, and downloaded from **WQData LIVE** for additional analysis.

Integrated tipping bucket and **MAST** mount features create an easy to setup and simple to maintain monitoring system which can be installed and relocated in minutes. Devices can be configured directly from any web browser without the need for costly site visits and complicated connections.

The **G2-RAIN**'s included Tipping Bucket Rain Gauge with Siphon, uses a standard 8" (200mm) diameter receiver that adheres to WMO & NOAA criteria. The siphon allows a steady flow of water to the tipping mechanism in order to provide reliable readings in 0 to 27" (700mm) per hour rain conditions. The collector funnel comes with a stainless steel filter screen to reduce manual maintenance by preventing leaves and other debris from clogging the opening.

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specifications

G2-RAIN-RTU	
RTU Mount	2" NPT pipe thread
Rain Gauge Mount	Mounting flange (compatible with Rickly 3510, HyQuest TB3/4/6)
Material	Aluminum body with white powder coat finish
Weight	6.5 lbs.
Dimensions	5.4" diameter, 4.0" height
Temperature Range	-30 to 70°C
Rating	IP65
Memory	Over 1.5M data records before rollover (85 years with a 30 minute interval)
Battery	(2) D-Cell lithium (Thionyl Chloride)
Battery Life	1-3 years (temperature dependent)
Tipping Bucket Input Connector	2 pin screw terminal
Sensor Input Signal	Contact closure (100mS minimum)
Communication	Verizon or AT&T 4G cellular modem
Transmission Trigger	Interval rain rate, time-based
User Interface	NexSens WQData LIVE web portal
Rain Interval	User configurable from 5 minutes to 24 hours (30 minute default)
User Parameters	Interval rain, rain intensity, total rain (calculated)
Meta Data Parameters	Tip counter
Diagnostic Data Parameters	Input power, internal temperature, internal humidity, cell signal strength, cell module power, processor power, processor current, RTC power, cell module current

Tipping Bucket Rain Gauge (Included with G2-RAIN)	
Weight	9 lbs.
Dimensions	8.0" diameter, 14.5" height
Receiver	Machined aluminum 8.0" rim
Sensitivity	One tip per 0.01" rain
Measuring Range	0 to 27 in/hr
Measuring Intensity Accuracy	+/-2% @ 0 to 10 in/hr +/-3% @ 10 to 20 in/hr +/-5% @ 20 to 27 in/hr
Siphon	0.016" (12ml) capacity brass & non-hydroscopic polymer with leaf/insect screen filter
Temperature	0 to 70°C

parts list

Part #	Description
G2-RAIN-VZ4G	Rain alert system with tipping bucket, Verizon 4G LTE cellular telemetry
G2-RAIN-AT4G	Rain alert system with tipping bucket, AT&T 4G LTE cellular telemetry
G2-RAIN-RTU-VZ4G	Rain alert system RTU only, Verizon 4G LTE cellular telemetry
G2-RAIN-RTU-AT4G	Rain alert system RTU only, AT&T 4G LTE cellular telemetry



G2-RAIN-RTU



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