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Rainfall Monitoring System
RAINALERT III™

Overview

Important decisions are made every day regarding sanitary sewer, combined sewer, and storm sewer systems and often require the use of rainfall data. Although these decisions involve significant capital investment and expenditures required to protect public health and the environment, the integrity of rainfall measurements supporting them is often overlooked.

The ADS® ***RainAlert®III™*** is a rainfall monitor that connects to a tipping bucket rain gauge to measure and record rainfall data. The ***RainAlert III*** is simple to install and simple to operate, with flexible configuration options, wireless communications, and alarming to deliver rainfall data when and where you need it.

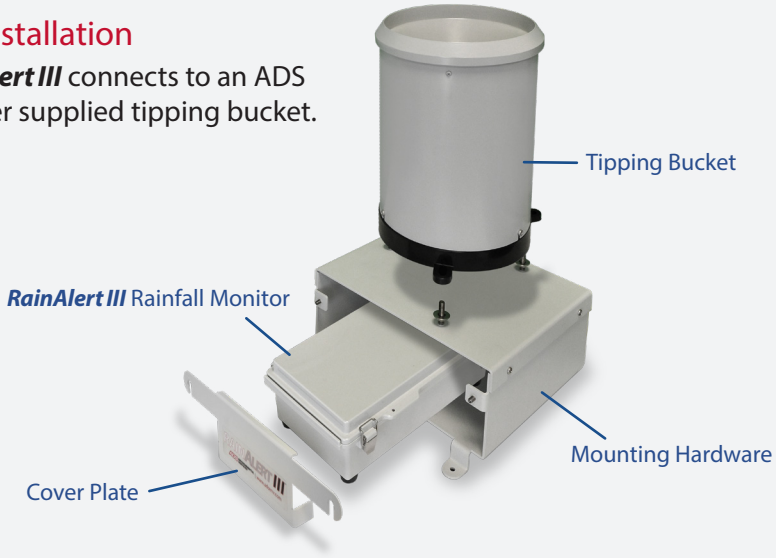
Applications

The ***RainAlert III*** is used to gather rainfall data for use in a variety of applications:

- Rainfall event analysis
- Rainfall alarming
- Infiltration and inflow analysis
- Hydrologic modeling
- CSO and SSO monitoring
- Regulatory compliance

Typical Installation

The ***RainAlert III*** connects to an ADS or customer supplied tipping bucket.



3 Mounting options to suit your needs


ground mount


pole mount


rooftop mount

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RAINALERT® III
Rainfall Monitor Specifications

Enclosure	Polycarbonate enclosure reinforced with 10% glass fiber resin
	NEMA Type 4X, IP67, and UL Rated
	Access cover includes stainless steel latches and a continuous gasket
	Pressure equalizing vent
Weight	10 lbs (4.54 kg), with battery
Operating Temperature	-4°F to +140°F (-20°C to +60°C)
Mounting	Optional mounting hardware designed for ground, pole mount, or rooftop installation
Resolution	0.01 inch/tip (United States)
	0.1, 0.2, 0.5, 1.0 mm/tip (International)
Dimensions	Height 10.63 in (270 mm) Width 7.09 in (180 mm) Depth 4.53 in (115 mm)

Memory	1MB program memory, 256 KB RAM
	8MB NV flash memory, 32KB NV FRAM
Processor	ARM Cortex M4 microprocessor
Data Storage	700+ days for two stored entities (Rain and Rain Intensity)
Clock	Battery-backed real-time clock module synchronized with wireless carrier
Firmware	Upgrade via remote wireless or local USB connection
Power	Replaceable 9V 60Ah alkaline battery pack or user-provided external power supply (6 to 24V DC, 1A)
Battery Life	Up to 3 years depending on operating temperature, modem power management and frequency/type of communications
Connector	2-Conductor 22 AWG wire provided for connection to tipping bucket
Diagnostics	Wireless communication or USBconnection to the unit through ADS ***Qstart™XML*** software for reading the latest monitor status and performing diagnostics to resolve problems
Antenna	Delivered with an internal ultra-wide band I-BAR type antenna. An SMA connector on the board is available for applications requiring an external antenna
Communications	Third-party, FCC/IC/EC- and carrier-approved wireless modem
	Compatible with all 4G LTE-M networks worldwide with 2G fallback (where available)
	Automatically detects installed SIM upon boot up to determine correct network
	Modem FCCID: R17ME910C1WW
Compatibility	***Qstart™XML***
	PRISM™

Learn more about *RainAlert III*
www.adsenv.com/rainalert

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Specifications subject to change without notice.