

## 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.

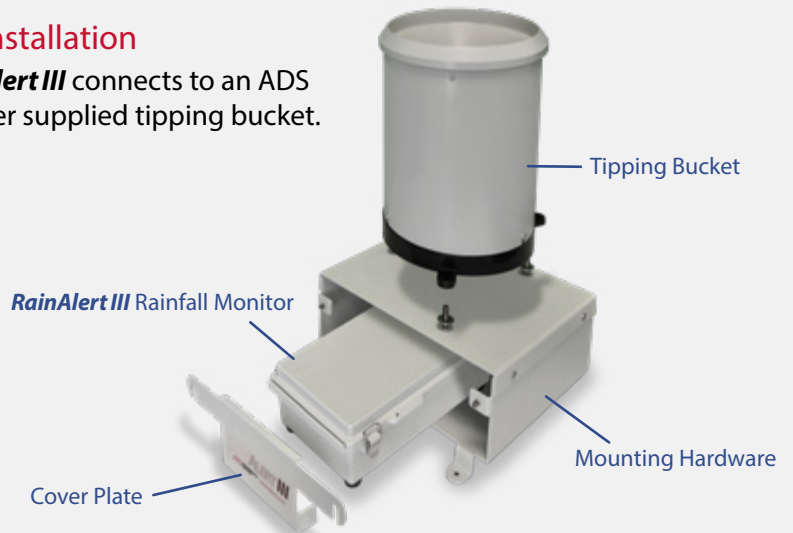
### Applications

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.



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Mounting options to suit your needs



ground mount



pole mount



rooftop mount

# RAINALERT III

## Rainfall Monitor Specifications



<b>Enclosure</b>	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
<b>Weight</b>	10 lbs (4.54 kg), with battery
<b>Operating Temperature</b>	-4°F to +140°F (-20°C to +60°C)
<b>Mounting</b>	Optional mounting hardware designed for ground, pole mount, or rooftop installation
<b>Resolution</b>	0.01 inch/tip (United States) 0.1, 0.2, 0.5, 1.0 mm/tip (International)
<b>Dimensions</b>	Height 10.63 in (270 mm) Width 7.09 in (180 mm) Depth 4.53 in (115 mm)



<b>Memory</b>	1MB program memory, 256 KB RAM 8MB NV flash memory, 32KB NV FRAM
<b>Processor</b>	ARM Cortex M4 microprocessor
<b>Data Storage</b>	700+ days for two stored entities (Rain and Rain Intensity)
<b>Clock</b>	Battery-backed real-time clock module synchronized with wireless carrier
<b>Firmware</b>	Upgrade via remote wireless or local USB connection
<b>Power</b>	Replaceable 9V 60Ah alkaline battery pack or user-provided external power supply (6 to 24V DC, 1A)
<b>Battery Life</b>	Up to 3 years depending on operating temperature, modem power management and frequency/type of communications
<b>Connector</b>	2-Conductor 22 AWG wire provided for connection to tipping bucket
<b>Diagnostics</b>	Wireless communication or USB connection to the unit through ADS <i>Qstart</i> <sup>TM</sup> <i>XML</i> software for reading the latest monitor status and performing diagnostics to resolve problems
<b>Antenna</b>	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
<b>Communications</b>	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
<b>Compatibility</b>	<i>Qstart</i> <sup>TM</sup> <i>XML</i> <i>PRISM</i> <sup>TM</sup>



Learn more about *RainAlert III*  
[www.adsenv.com/rainalert](http://www.adsenv.com/rainalert)



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