



## RainAlert®III™ Rainfall Monitoring System TB4 Tipping Bucket Rain Gauge

### Overview

Reliable rainfall measurements are important for the design, evaluation, and operation of sewer systems. Rainfall characteristics vary widely, as do rainfall monitoring needs. Therefore, ADS offers a range of tipping bucket rain gauges (TBRGs) to meet your needs based on an approach that is technically sound, flexible, and cost-conscious.

The **TB4** uses siphoning tipping bucket technology to provide accurate rainfall measurements across a wide range of rainfall intensities. It provides professional grade features and durable construction to provide high-quality measurements at an affordable cost.

### Application

The siphoning TBRG is recommended for use where a standard TBRG does not provide the desired accuracy to effectively measure local rainfall events at return frequencies of interest.

### Key Features

**Siphoning tipping bucket**  
measures high intensity rainfall

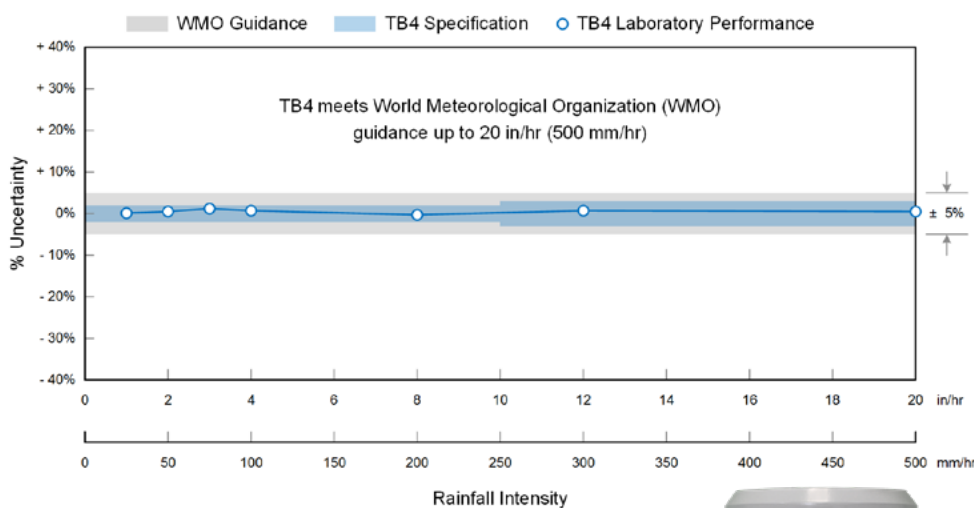
**Finger filter**  
reduces funnel plugging

**Integrated insect screens**  
keep spiders and insects out

**Sapphire bearings**  
provide stable calibration

**ISO-9001 certification**  
ensures quality

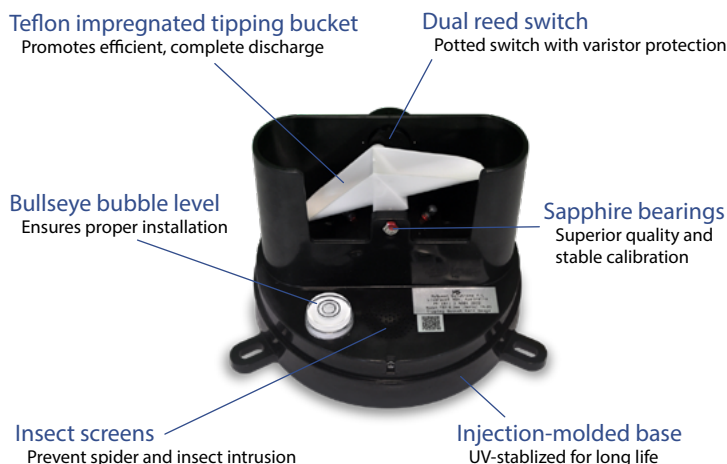
### TB4 Tipping Bucket Rain Gauge Performance



**TB4** outer enclosure secures the rim and funnel to the base and provides easy access for O&M



## TB4 Siphoning Tipping Bucket Rain Gauge



## Siphon Assembly

The siphon assembly is located inside the finger filter.



The siphon regulates the delivery of rainfall to the tipping bucket for more accurate measurements at higher rainfall intensities.

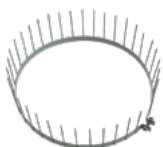
## Integrates with RainAlert® III



The ADS **RainAlert III** is a rainfall monitor that connects to the **TB4** and provides data acquisition and alarming via cellular communications. Use for both permanent and temporary applications, including infiltration and inflow studies, hydraulic model calibration, regulatory compliance programs, and more.

## Accessories

Bird Guard



Mounting Hardware



Field Calibration Device



## TB4 Series II Specifications

<b>Type</b>	Siphoning TBRG
<b>Receiver</b>	8-inch nominal diameter (200 mm ± 0.3 mm) Diecast aluminum, powder-coated
<b>Enclosure</b>	Removable for easy access to interior Spun aluminum, powder-coated
<b>Finger Filter</b>	Injection-molded ABS Stainless steel mesh screen
<b>Bucket</b>	Teflon impregnated ASA Balanced to ± 0.05 g Discharge extensions 0.01 in/tip (United States) 0.2 mm/tip (International)
<b>Bearings</b>	Sapphire bearings Stainless steel shaft
<b>Accuracy</b>	± 2% up to 10 in/hr (250 mm/hr) ± 3% up to 20 in/hr (500 mm/hr)
<b>Max Intensity</b>	28 in/hr (700 mm/hr)
<b>Contacts</b>	Dual reed switch Potted in soft silicon rubber Varistor protection 24 V (0.5 A) max capacity 0.1 Ω initial contact resistance
<b>Base</b>	Injection-molded ASA Integrated mesh insect screens Drain fittings Bullseye bubble level
<b>Temperature</b>	-4°F to +158°F (-20°C to +70°C) Not suitable for frozen precipitation Heater unit not available for this model
<b>Height</b>	13 in (330 mm)
<b>Weight</b>	4.9 lbs (2.2 kg)
<b>Shipping</b>	11.0 lb / 1.1 ft <sup>3</sup> (5.0 kg / 0.03 m <sup>3</sup> )
<b>Compatibility</b>	<b>RainAlert® III™</b> <b>Qstart™XML</b> <b>PRISM™</b>



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

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Specifications subject to change without notice.

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