

# TB4

## Siphoning Tipping Bucket Rain Gauge

The TB4 combines professional grade features and economic construction to provide high quality rainfall measurement at an affordable cost. Siphoning technology provides higher accuracy at higher rainfall intensities.

Reliable rainfall measurements are a critical component in the design and evaluation of sewer systems. Rainfall characteristics vary widely, as do rainfall monitoring needs. ADS® offers a full-line of tipping bucket rain gauges to meet these needs using a technically-based, flexible, and cost-conscious approach.

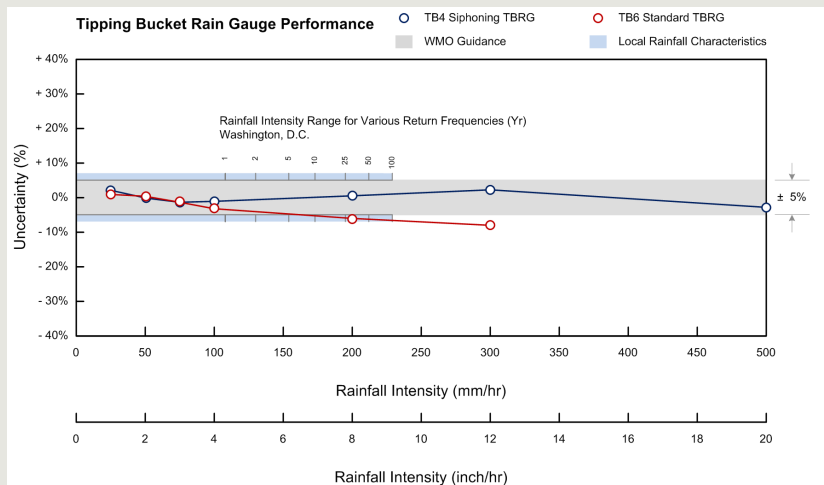
### TB4 Features

- Siphoning technology
- Durable, rugged design
- Finger filter keeps debris from plugging the funnel
- Integrated insect screens keep spiders and insects out
- 0.01 inch/tip or 0.2 mm/tip
- Long-term, stable calibration
- ISO-9001



### Application

The TB4 is specially designed and calibrated to achieve a high level of accuracy across a wide range of rainfall intensities. It is recommended where a standard tipping bucket does not provide the desired accuracy to effectively measure local rainfall events at return frequencies of interest.



Each TB4 unit consists of an outer enclosure with rim, funnel, finger filter, and siphon, as well as a base which houses the tipping bucket mechanism. The outer enclosure is easily removed from the base with quick release fasteners.

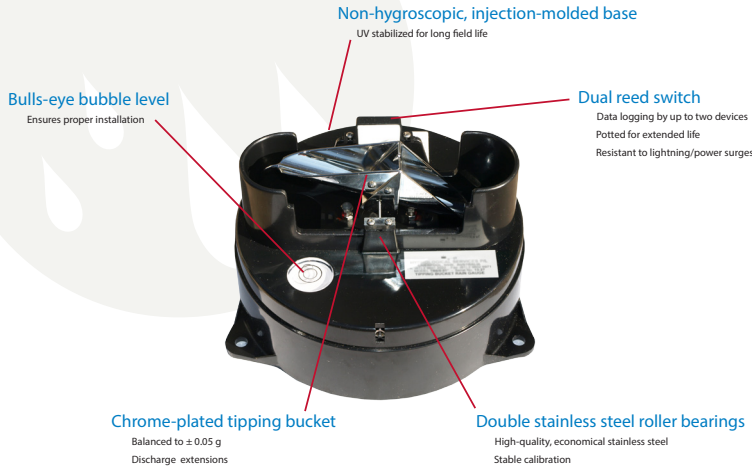


# TB4 Siphoning Tipping Bucket Rain Gauge

**HARDWARE**

## TB4 Product Specifications

- Type:** Siphoning TBRG
- Receiver:** 8-inch nominal diameter  
(200 mm ± 0.3 mm)  
Die-cast aluminum, powder-coated
- Enclosure:** Removable for easy access to interior  
Spun aluminum, powder-coated
- Finger Filter:** Non-hygroscopic, injection-molded ABS  
Stainless steel mesh screen
- Bucket:** Chrome-plated, injection-molded ABS  
Balanced to 0.05 g  
0.01 inch/tip (United States)  
0.2 mm/tip (International)
- Bearings:** Double stainless steel roller bearings  
Stainless steel shaft
- Accuracy:** +/- 2% up to 10 in/hr (250 mm/hr)  
+/- 3% up to 20 in/hr (500 mm/hr)
- Max Intensity:** 28 in/hr (700 mm/hr)
- Contacts:** Dual reed switch  
Potted in soft silicon rubber  
Varistor protection  
24 V (0.5 A) max capacity  
0.1 Ω initial contact resistance
- Base:** Non-hygroscopic, injection-molded ABS  
Stainless steel mesh insect screens  
Drain fittings  
Bulls-eye bubble level
- Humidity:** 0% to 100%
- Temperature:** Not suitable for frozen precipitation  
Heater unit not available for this model
- Height:** 12.25 in (310 mm)
- Weight:** 4.4 lbs (2 kg)
- Shipping:** 8.8 lb / 1.1 ft<sup>3</sup> (4 kg / 0.03 m<sup>3</sup>)



## TB4 Siphon Assembly

The siphon assembly is located inside the finger filter.



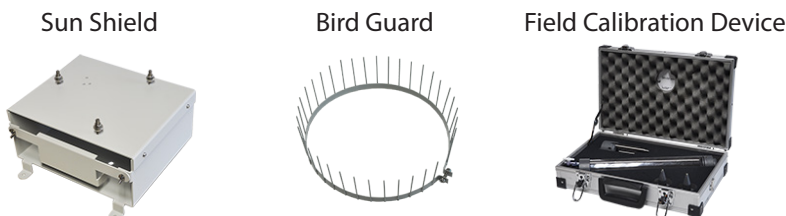
The siphon assembly regulates the delivery of rainfall to the tipping bucket. It has no moving parts.

## Integrates w/ RainAlert III Rainfall Monitor



The ADS RainAlert III™ is a low-cost, wireless rain gauge data logger that can alert via text or email messages when rainfall intensity exceeds a specified threshold. The technology is designed for ultra-low power consumption, yielding a battery life up to six years, depending on configuration. The RainAlert III provides intelligent alarming and data acquisition for use in precipitation analysis, sewer flow monitoring studies, overflow prevention programs, sewer capacity studies, master plan studies, and more.

## Accessories



340 The Bridge Street, Suite 204, Huntsville, AL 35806  
Phone: 256.430.3366/ Fax: 256.430.6333  
Toll Free: 1.800.633.7246