

# TB3

## Siphoning Tipping Bucket Rain Gauge

The TB3 combines professional grade features and heavy-duty, rugged construction to provide high quality rainfall measurement. 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.

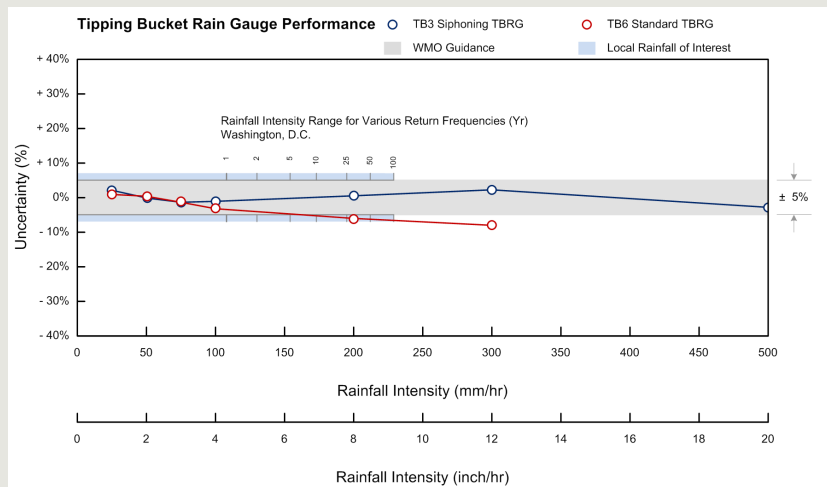
### TB3 Features

- Siphoning technology
- Heavy-duty, 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 TB3 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 TB3 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.



# TB3 Siphoning Tipping Bucket Rain Gauge

**HARDWARE**

**Powder-coated, die-cast aluminum base**  
Heavy-duty, rugged construction

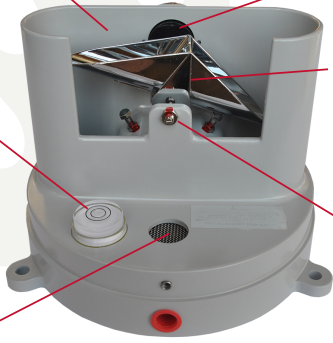
**Dual reed switch**  
Potted for extended life  
Resistant to lightning/power surges

**Bulls-eye bubble level**  
Ensures proper installation

**Chrome-plated tipping bucket**  
Balanced to  $\pm 0.05$  g  
Discharge extensions

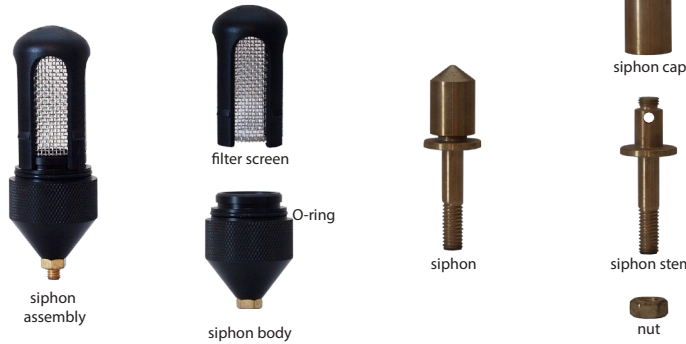
**Insect screens**  
Stainless steel mesh  
Prevents spider and insect intrusion

**Sapphire bearings**  
Superior quality, stable calibration



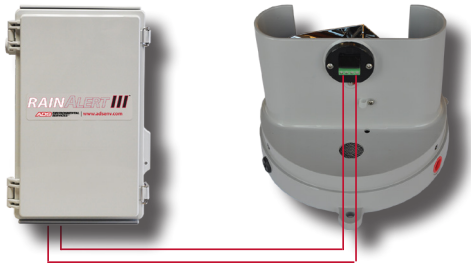
## TB3 Siphon Assembly

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



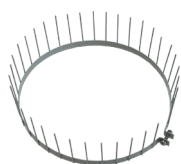
The ADS RainAlert III™ is a low-cost, wireless rain gauge data logger that can alert via text or email messages when rainfall intensity exceeds a specified threshold. The technology is designed for ultra-low power consumption, yielding a battery life up to six years, depending on configuration. The RainAlert 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

Sun Shield

Bird Guard

Field Calibration Device



## TB3 Product Specifications

<b>Type:</b>	Siphoning TBRG
<b>Receiver:</b>	8-inch nominal diameter (200 mm $\pm$ 0.3 mm) Die-cast aluminum, powder-coated
<b>Enclosure:</b>	Removable for easy access to interior Spun aluminum, powder-coated
<b>Finger Filter:</b>	Non-hygroscopic, injection-molded ABS Stainless steel mesh screen
<b>Bucket:</b>	Chrome-plated, injection-molded ABS Balanced to 0.05 g 0.01 inch/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 $\Omega$ initial contact resistance
<b>Base:</b>	Powder-coated, die-cast aluminum Stainless steel mesh insect screens Drain fittings Bulls-eye bubble level
<b>Humidity:</b>	0% to 100%
<b>Temperature:</b>	Suitable for frozen precipitation if equipped with optional heater unit
<b>Height:</b>	13.00 in (330 mm)
<b>Weight:</b>	6.6 lbs (3 kg)
<b>Shipping:</b>	11.0 lb / 1.1 ft <sup>3</sup> (5 kg / 0.03 m <sup>3</sup> )

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