

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.

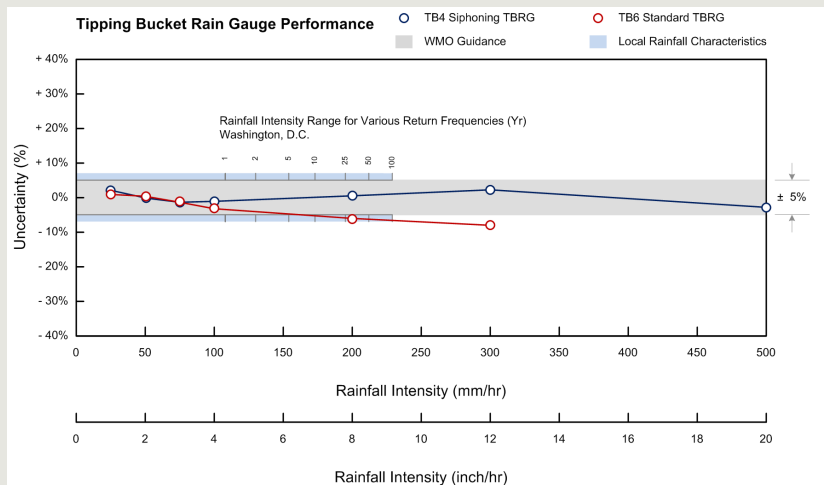
TB4 Features

- 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.

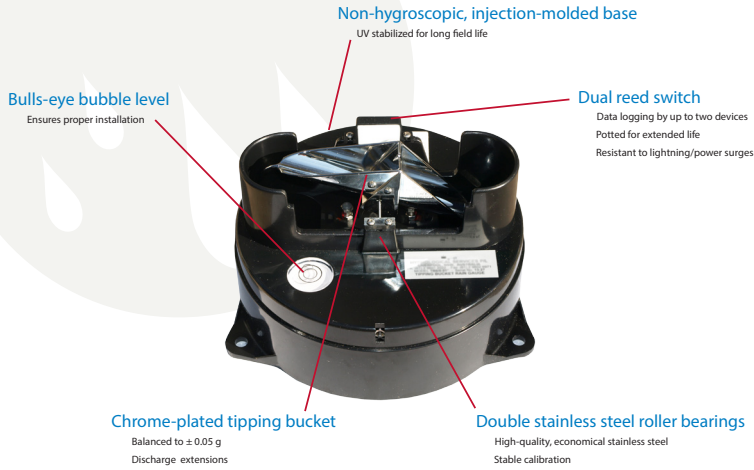


TB4 Siphoning Tipping Bucket Rain Gauge

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 ft³ (4 kg / 0.03 m³)



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



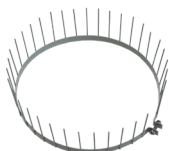
The ADS RainAlert III™ is a low-cost, wireless rain gauge data logger that can alert via text or email messages when rainfall intensity exceeds a specified threshold. The technology is designed for ultra-low power consumption, yielding a battery life up to six years, depending on configuration. The RainAlert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

Sun Shield



Bird Guard



Field Calibration Device



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