



RainAlert®III™ Rainfall Monitoring System TB3 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 **TB3** uses siphoning tipping bucket technology to provide accurate rainfall measurements across a wide range of rainfall intensities. It provides professional grade features and heavy-duty, rugged construction to provide high-quality measurements.

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. The **TB3** is a preferred choice when a heated tipping bucket is required.

Key Features

Siphoning tipping bucket
measures high intensity rainfall

Finger filter
reduces funnel plugging

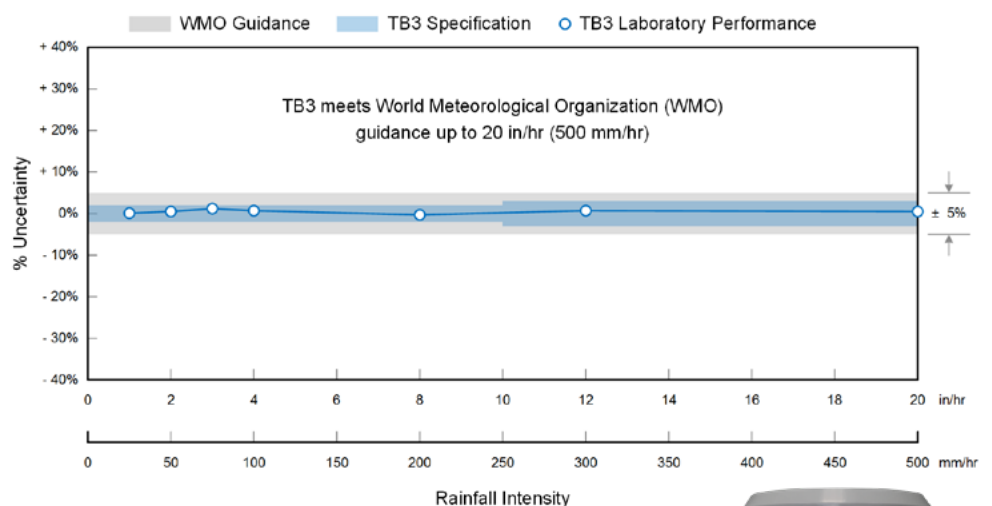
Integrated insect screens
keep spiders and insects out

Sapphire bearings
provide stable calibration

Optional heater unit
measures frozen precipitation

ISO-9001 certification
ensures quality

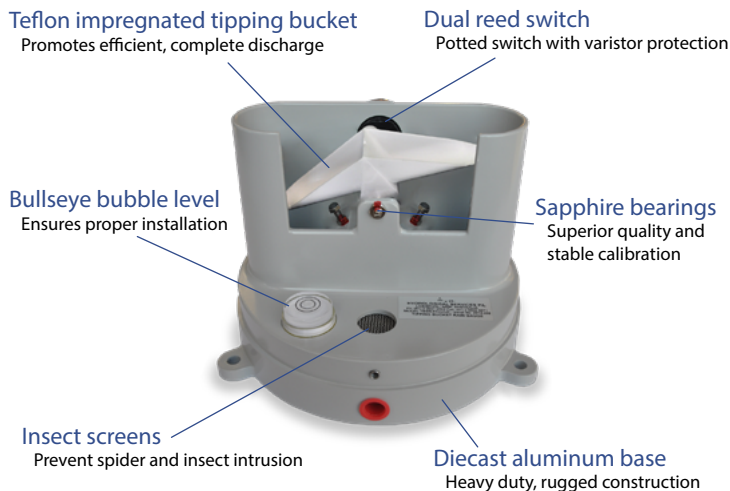
TB3 Tipping Bucket Rain Gauge Performance



TB3 outer enclosure secures the rim and funnel to the base and provides easy access for O&M



TB3 Siphoning Tipping Bucket Rain Gauge



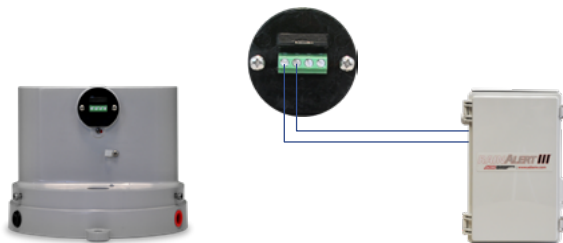
Siphon Assembly

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 **TB3** 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



Learn more about *RainAlert III*
www.adsenv.com/rainalert



Call: 800.633.7246
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TB3 Specifications

Type	Siphoning TBRG
Receiver	8-inch nominal diameter (200 mm ± 0.3 mm) Diecast aluminum, powder-coated
Enclosure	Removable for easy access to interior Spun aluminum, powder-coated
Finger Filter	Injection-molded ABS Stainless steel mesh screen
Bucket	Teflon impregnated ASA Balanced to ± 0.05 g Discharge extensions 0.01 inch/tip (United States) 0.2 mm/tip (International)
Bearings	Sapphire 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	Diecast aluminum, powder-coated Stainless steel mesh insect screens Drain fittings Bullseye bubble level
Temperature	-4°F to +158°F (-20°C to +70°C) Suitable for frozen precipitation if equipped with optional heater unit
Height	13 in (330 mm)
Weight	6.6 lbs (3 kg)
Shipping	11.0 lb / 1.1 ft ³ (5.0 kg / 0.03 m ³)
Compatibility	<i>RainAlert® III</i> <i>Qstart™XML</i> <i>PRISM™</i>