



RainAlert®III™ Rainfall Monitoring System TB7 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 **TB7** uses standard tipping bucket technology to provide rainfall measurements at lower rainfall intensities. It provides professional grade features and budget-friendly construction to provide rainfall measurements at an affordable cost.

Application

The standard TBRG is recommended for use where lower rainfall intensities are expected at design storms of interest. ADS recommends a siphoning TBRG if higher accuracy is required at higher rainfall intensities.

Key Features

Standard tipping bucket
measures low intensity rainfall

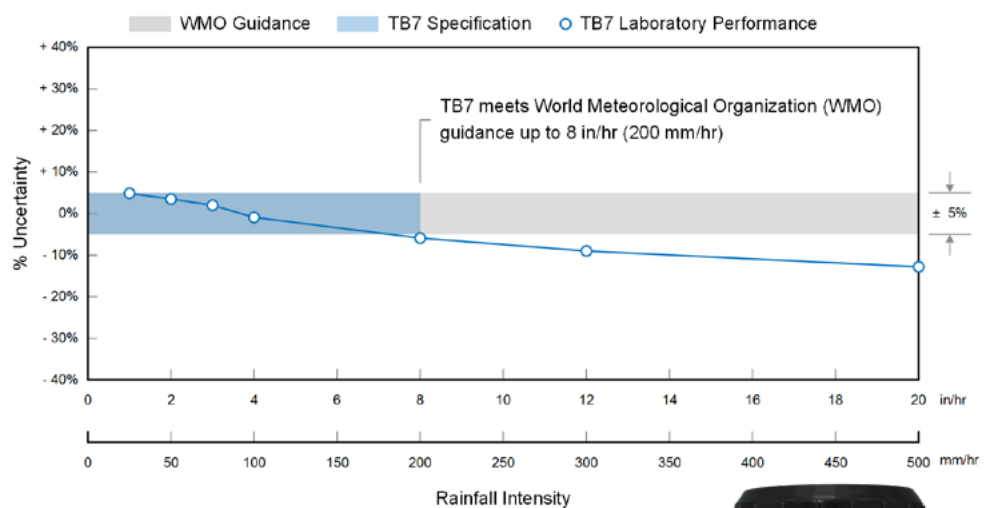
Finger filter
reduces funnel plugging

Integrated insect screens
keep spiders and insects out

Integrated bird guard
keeps birds and bird droppings away

ISO-9001 certification
ensures quality

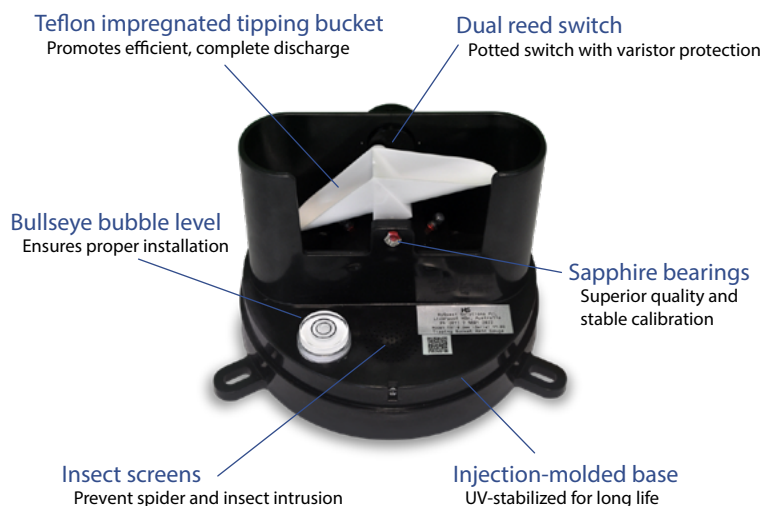
TB7 Tipping Bucket Rain Gauge Performance



TB7 outer enclosure secures the rim and funnel to the base and provides easy access for O&M



TB7 Standard Tipping Bucket Rain Gauge



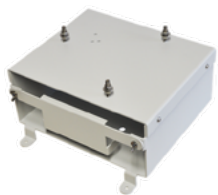
Integrates with RainAlert® III



The ADS *RainAlert III* is a rainfall monitor that connects to the **TB7** 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

Mounting Hardware



Field Calibration Device



TB7 Specifications

Type	Standard TBRG
Receiver	8-inch nominal diameter (200 mm ± 0.3 mm) ASA UV-stabilized
Enclosure	Removable for easy access to interior ASA UV-stabilized
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	< ±5% up to 8 in/hr (200 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	Injection-molded ASA Integrated mesh insect screens Drain fittings Bullseye bubble level
Temperature	-4°F to +158°F (-20°C to +70°C) Not suitable for frozen precipitation Heater unit not available for this model
Height	13 in (330 mm)
Weight	4.0 lbs (1.8 kg)
Shipping	9.9 lb / 1.1 ft ³ (4.5 kg / 0.03 m ³)
Compatibility	<i>RainAlert® III</i> <i>Qstart™XML</i> <i>PRISM™</i>



Learn more about *RainAlert III*
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