User Instructions

Tipping bucket rain gauge

Choosing the Proper Site

- Find an area that accurately represents the rainfall in the area that you are monitoring.
- Choose an installation site that is in a clearing. The site should be away from trees and buildings that could block or change the natural rainfall pattern.
- Install the rain gauge on a level surface.

Preparing the Rain Gauge for Use

Before installing the rain gauge, **remove the packing material** inside the gauge and make sure that the tipping bucket moves freely about the pivot point.

Installing the Rain Gauge

1. The square base plate on the rain gauge has one hole drilled at each corner. See Figure 1. Attach the mounting plate to the ground with small stakes, bolts, etc., depending on the mounting surface.
2. Level the assembly. Turn the three wing nuts (located on the base of the gauge) until the bubble in the level (located inside the gauge) is centered inside the bull's eye.
3. Reinstall the funnel and place the screen over it. The screen prevents leaves and other debris from clogging the tipping bucket.

Connecting the Rain Gauge to a Metering Device

Rain Gauge Model 2149 has a 6-pin connector that connects to a flow meter or sampler.

Rain Gauge Model 5095 has two bare wire leads that can be wired into terminal blocks on a flow meter or sampler.

Rain Gauge Model 8542800 has a 5-pin connector that connects to a Hach FL900 Series flow logger.

Relocating the Rain Gauge

If you relocate the rain gauge, make sure the assembly is level before taking measurements. Recalibration is not necessary.

Figure 1

Rain Gauge Specifications

Type	Tipping Bucket with 8 in. diameter collector/funnel
Dimensions	18 in. H x 12 in. W x 12 in. D (45.7 cm x 30.5 cm x 30.5 cm)
Weight	9.25 lbs. (4.2 kg)
Resolution	0.01 in. rainfall per bucket tip
Accuracy	0.5% at 0.5 in. per hour
Base Mounting Plate	Spring loaded, 3-point adjustable
Construction Materials	Epoxy-coated aluminum and anodized aluminum (funnel screen is stainless steel)

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