

SIGMA RAIN GAUGES

Applications

- Wastewater
- Industrial Water
- Collection Systems



Diverse and Reliable Measuring

Built to National Weather Service standards, the gauge accurately measures rainfall in 0.01" increments. The tipping bucket mechanism tips with every 0.01" of rainfall, producing a momentary contact closure with each movement.

A stainless steel funnel screen prevents plugging from leaves and other wind-blown debris. The removable funnel permits viewing of a built-in bubble level, with an innovative spring-loaded base plate providing an easy, convenient means to level the gauge. A hole in each corner of the base plate permits a secure, anchored installation.

Principle of Operation

The 8" diameter funnel directs rainwater into a "tipping bucket", which is divided vertically into two halves. When 0.01" of rainfall fills one side of the bucket, the bucket tips, spilling the water through the bottom of the rain gauge. The other side of the bucket is then positioned under the funnel. The bucket alternates tips with each 0.01" of rainfall. With each tip, a magnet, mounted to the bucket, activates a sealed, magnetic reed (proximity) switch, producing a momentary contact closure. Data is logged at user selectable time intervals using Hach FL900 series logger or Sigma 950 Flowmeter.

Key Features

- Stainless steel funnel screen prevents plugging from leaves and other wind blown debris
- Removable funnel makes cleaning easy
- Built-in bubble level, with an innovative spring-loaded base plate provides an easy, convenient means to level the gauge
- Base plate permits secure anchored installation

Specifications*

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

**Subject to change without notice.*

Ordering Information

2149	Rain Gauge with 25 ft. Cable - For use with Sigma 950 Flowmeters.
2221	Rain Gauge Extension with 100 ft. Cable. Extension cable for 2149 rain gauge.
8542800	Rain Gauge with 100 ft. cable for use with FL900 Series Flow Loggers.
8547700	Connector Kit used to make 2149 rain gauge compatible with FL900 series loggers.

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Hach Company reserves the right to alter specifications to equipment at any time.



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