



## PRECIPITATION GAUGES – P/N 100508

### FEATURES

- **Roller on Roller Pivots**
- **Tipping Bucket**
- **Heater Option**
- **Self-Emptying**
- **Corrosion Resistant Materials**
- **English or Metric Calibration**
- **Quality Construction**

The accurate measurement of rain and snow precipitation remains one of the most basic elements of hydrological and meteorology studies. The P/N 100508 series of precipitation gauges with a six (6) inch funnel diameter has been designed to measure rainfall and precipitation in remote and unattended locations. These gauges are high quality instruments that provide accurate measurements with long term performance. The tipping bucket design allows accurate repeatable measurements, requires no regular operator maintenance, and is economical and proven in operation. All components of the P/N 100508 series rain gauges reflect the environmental requirements of a continuous duty instrument.

A dual-chambered tipping bucket assembly is located below the collection funnel. When a precise amount of precipitation has been collected in one side of the bucket, gravity tips the assembly and activates a reed switch. A momentary electrical contact closure through the switch is provided for each increment of rainfall. The sample is discharged through the base of the gauge. For environments that can typically expect a significant amount of frozen precipitation, internal sensor heaters are available. The heating elements are thermostatically controlled to melt any frozen precipitation, so the water content can be measured, with a minimum of evaporative loss.

The funnel and housing are anodized aluminum and finished with white powder coating. Stainless Steel is used for all critical components of the tipping bucket assembly and pivots. The funnel has two screens to prevent leaves and other debris from entering or clogging the gauge. A circular bubble-level and adjustable feet facilitate proper mounting of the unit.



## SPECIFICATIONS

### Rain Gauges:

Plastic Tip Bucket P/N:	100508-G0-H0	100508-G0-H2	100508-G0-H1
Metal Tip Bucket P/N:	100508-G1-H0	100508-G1-H2	100508-G1-H1
Funnel Area:	200cm <sup>2</sup>	200cm <sup>2</sup>	200cm <sup>2</sup>
Standard Calibration:	.25mm/tip or .01in/tip	.20mm/tip	.10mm/tip
Accuracy:	0 to 30mm/hr ± 1.0% 30 to 120mm/hr ± 5.0%	0 to 30mm/hr ± 1.0% 30 to 120mm/hr ± 5.0%	0 to 30mm/hr ± 1.0% 30 to 120mm/hr ± 5.0%
Switch:	Reed Switch, rated at 10mA, 28VDC	Reed Switch, rated at 10mA, 28VDC	Reed Switch, rated at 10mA, 28VDC
Operating Temperature:	0°C to +60°C	0°C to +60°C	0°C to +60°C
Height/ Weight:	30.5cm / .92kg	30.5cm / .92kg	30.5cm / .92kg

### Rain & Snow Gauges:

Plastic Tip Bucket Model #:	100508-1-G0-H0	100508-1-G0-H2	100508-1-G0-H1
Metal Tip Bucket Model #:	100508-1-G1-H0	100508-1-G1-H2	100508-1-G1-H1
Funnel Area:	200cm <sup>2</sup>	200cm <sup>2</sup>	200cm <sup>2</sup>
Standard Calibration:	.25mm/tip or .01in/tip	.20mm/tip	.10mm/tip
Accuracy:	0 to 30mm/hr ± 1.0% 30 to 120mm/hr ± 5.0%	0 to 30mm/hr ± 1.0% 30 to 120mm/hr ± 5.0%	0 to 30mm/hr ± 1.0% 30 to 120mm/hr ± 5.0%
Switch:	Reed Switch, rated at 10mA, 28VDC	Reed Switch, rated at 10mA, 28VDC	Reed Switch, rated at 10mA, 28VDC
Operating Temperature:	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C
Thermostat Set Point for Funnel & Base Heater:	4.4°C	4.4°C	4.4°C
Heaters:	Funnel: 24VAC/DC, 75watt Base: 24VAC/DC, 50watt	Funnel: 24VAC/DC, 75watt Base: 24VAC/DC, 50watt	Funnel: 24VAC/DC, 75watt Base: 24VAC/DC, 50watt
Height/ Weight:	30.5cm / 1.1kg	30.5cm / 1.1kg	30.5cm / 1.1kg

### Ordering Information:

Specify Model Number, calibration factor, cable length(s), and accessories.

Signal Cable: PN M3226-xx (xx=length in feet)

Power Cable: PN M2743-xx (xx=length in feet)

### Accessories:

100097-WS, Wind Screen, 75 lbs: It can improve the accuracy of the precipitation catch by inducing local turbulence.

102271, Pole Mounting Bracket, 5 lbs: Fits on 1-1/4" IPS (1-3/4" OD pipe).

260-2595, Field Calibrator, 2 lbs



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