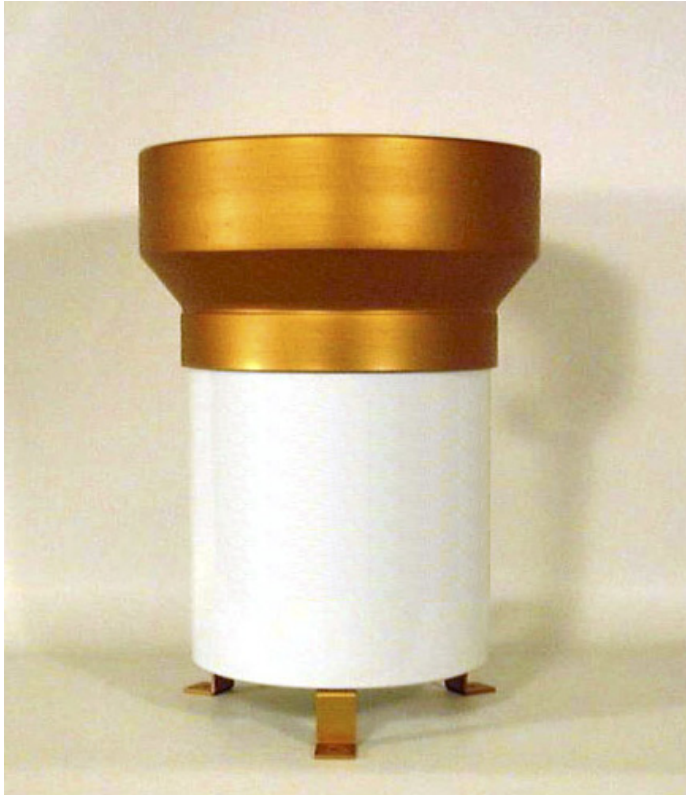




Model 2100-120 Rain Gauge



Operation

The Model 2100-120 Rain Gauge is a tipping bucket rain gauge that measures liquid precipitation. This sensor is specifically designed to meet the National Weather Service's requirements for rainfall measurement

The 2100-120 contains an open top, which allows rainfall to fall into the collector. Collected water is funneled to the tipping bucket. The tipping bucket incrementally measures the rainfall accumulation. As water is collected, the tipping bucket fills to the point where it tips and causes a momentary switch closure.

Water dumped by the tipping bucket passes out of the rain gauge with no need for emptying.

Model 2100-120 Advantages

- Meets National Weather Service requirements for 8" collector
- Knife-edge collector optimizes rainfall catch
- Exceptional splash-out protection to compensate for wind errors
- Easy installation and maintenance
- Lightweight spun Aluminum Exterior
- Anodized aluminum collector for superior weather resistance
- Integral Bubble Level

An optional rain gauge heater 2100-121 is available where snow or freezing weather may occur. The rain gauge heater consists of two thermostatically controlled low-power heating elements that ensure operation during freezing conditions.

Ordering Information:

- Model Number 2100-120
- Optional Heater PN 2100-121



Optical Scientific Inc.

2 Metropolitan Court Suite 6 • Gaithersburg, MD, 20878 • USA
Ph. 301-963 3630 • Fax 301-948-4674
email: sales@opticalscientific.com www.opticalscientific.com

Model 2100-120 Rain Gauge

Performance Specification	
Capacity	Unlimited
Orifice	8" (203 mm)
Orifice Surface Area	50.25 in ² (324 cm ²)
Calibration:	0.01"
Accuracy	± 1% at 2"/hr (5 cm/hr)

Electronic Specification	
Heater	110 VAC @ 1.65 A VAC
Output	135 mSec switch closure
Contact Rating	30 VDC @A, 115 VAC @ 1A

Environmental Specification	
Temperature Range	0 to +70° C; -55 to +70° C with optional heater
Humidity	0 to 100%

Physical Specification	
Pivot	Hardened SS Jewel and Pivot
Sensor Size	8" x 11" (203 mm x 280 mm)
Level	Integral Bubble Level
Weight	2.5 lbs 1.2 kg
Shipping Weight	6 lbs 2.7 kg lbs

Specifications are subject to change without notice.



Optical Scientific Inc. (OSi)
2 Metropolitan Court Suite 6
Gaithersburg, MD 20877 USA
Ph. 301-963-3630
Fax 301-948-4674
website: www.opticalscientific.com
email: sales@opticalscientific.com



For the world's best performing and most reliable meteorological instruments, contact OSi today!