

# MODEL 2310

## All Season Precipitation Gauge

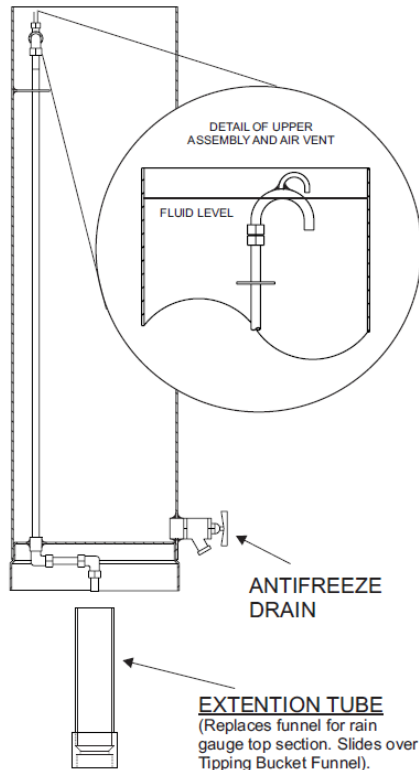
- Large 12 in (30.5 cm) Diameter Cylinder
- Rain, Snow or Freezing Rain
- No Power Consumption for Remote Sites
- Operation & Maintenance Vastly Improved



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### DESCRIPTION:

The Model 2310 All-Season Gauge utilizes an antifreeze mix in a 12 in (30.5 cm) diameter cylinder with an overflow tube. It is intended to mount on top of an existing Model 2400-00 top section utilizing an extension tube to direct the overflow stream into the tipping bucket. When precipitation enters the 2310, it mixes with the anti-freeze solution and displaces a volume equivalent to the amount of precipitation. This fluid drains through the overflow tube to the tipping bucket which measures the precipitation.

A thin layer of mineral oil is floated on the mixture surface to prevent evaporation. The tubing comes up through the anti-freeze solution and ends below the surface with an upside down U going back into the solution. At the highest point of the upside down U, a small air vent, also in the shape of an upside down U, lets in air so no vacuum is created.

The anti-freeze solution with the top layer of mineral oil is brought to the level where it starts to drain down the tube to a tipping bucket. The Model 2310 is then set and ready to measure precipitation. The height of the 2310-00 will vary with expected annual water content of the snow. For summer operation the 2310 may be removed and replaced with a simple Model 2400-06 funnel.

### SPECIFICATIONS:

|                       |       |  |
|-----------------------|-------|--|
| Operating Temperature | ....  | Varies with concentration of antifreeze solution                             |
| Orifice Diameter      | ..... | 12 in (30.5 cm)  |
| Fluid Capacity        | ..... | ~4, 11, or 25.5 gallons  |
| Mounting              | ..... | Standard section for standpipe   |
| Material              | ..... | Aluminum tubing  |
| Dimensions            | ..... | 12, 30 or 60 in (30.5, 76.2 or 152.4 cm) in height, 12 in (30.5 cm) diameter |
| Weight                | ..... | Varies with height and capacity  |

### ORDERING GUIDE:

|               |       |   |
|---------------|-------|---|
| Model 2310-00 | ..... | All-Season Rain & Snow Overflow Gauge, 30 x 12 in (76.2 x 30.5 cm)  |
| Model 2310-01 | ..... | All-Season Rain & Snow Overflow Gauge, 12 x 12 in (30.5 x 30.5 cm)  |
| Model 2310-02 | ..... | All-Season Rain & Snow Overflow Gauge, 60 x 12 in (152.4 x 30.5 cm) |

### OPTIONS/SPARE PARTS:

|               |       |  |
|---------------|-------|--|
| Model 2300-01 | ..... | Anti-Freeze Solution; 1 Pre-Mix Gallon.                  |
| Model 2300-02 | ..... | Anti-freeze Pump; use with All-Season Rain & Snow Gauge. |
| Model 2310-09 | ..... | Stabilizing Kit; for 30 inch and taller                  |
| Model 2400-06 | ..... | Replacement Funnel; for Model 2400                       |

See [www.highsierraelectronics.com](http://www.highsierraelectronics.com) for more specifications and ordering information.

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**Environmental Monitoring Solutions**

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