



# YOUNG

## Model 50202 Precipitation Gauge

**The Model 50202  
Precipitation Gauge  
accurately measures  
rain or snow precipitation  
without moving parts.**

Durable thermoplastic construction with no moving parts offers excellent corrosion resistance and long term reliability. Insulated housings and thermostatically controlled heaters permit operation at temperatures below freezing. Unique design with centrally located capacitive sensor is unaffected by unsteady conditions, making the instrument ideal for use on moving platforms such as buoys and ships.

Rain or snow collected in the catchment funnel is directed into the measuring chamber; 1 mm of precipitation produces a 5 mm rise in the chamber. Column level is sensed by a capacitive probe and converted to a linear voltage signal that can be read by external electronics.

When the column level reaches a maximum of 250 mm (50 mm of precipitation), the chamber automatically empties and the process repeats. Total precipitation can be tracked by a datalogger or recorder.



### Specifications

**Threshold:**  
1 mm (.04 in)

**Accuracy:**  
± 1 mm (±.04 in)

**Signal:**  
0 to 5.00 VDC = 0 to 50 mm precipitation

**Chamber Drain Time:**  
30 seconds approx.

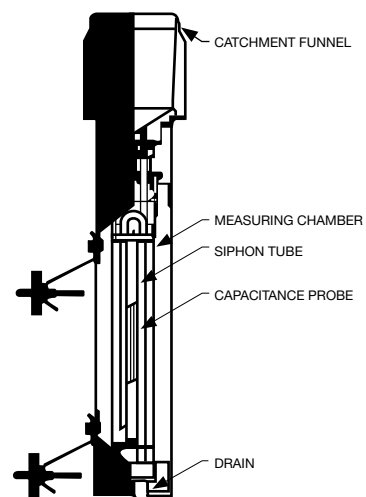
**Power Requirement:**  
Measuring Circuit: 8 to 30 VDC unregulated  
Heater: 48 Watts @ 28 VAC

**Operating Temperature:**  
-20°C to +50°C (-4°F to + 122°F)

**Dimensions:**  
Height: 65 cm (25.6 in)  
Diameter: 14 cm (5.5 in)  
Catchment Diameter: 113 mm (4.4 in)  
Catchment Area: 100 cm<sup>2</sup> (15.5 in<sup>2</sup>)

**Mounting:**  
U-bolts fit vertical pipe, 25-50 mm (1-2 in) diameter.

**Weight:**  
2.5 Kg (5.5 lb)  
Shipping Weight: 4 Kg (9 lb)



### Ordering Information

### MODEL

PRECIPITATION GAUGE ( HEATED) 120V/60Hz .....	50202
PRECIPITATION GAUGE ( HEATED) 220V/50-60Hz .....	50202H
PRECIPITATION GAUGE ( UNHEATED) .....	50203



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