



Non-Moving Part Precipitation Gauge

S1111W / S1111Z

- **No moving parts**
- **Works on moving platforms**
- **Resistant to salt water**
- **Heated or un-heated**
- **+/- 2 mm accuracy**

The precipitation gauge was developed specifically to be low or no maintenance, operate in very harsh environments, or for measuring precipitation on moving platforms. The gauge collects and measures without any moving parts. Its capacitance probe provides a calibrated voltage output proportional to collected precipitation.

The unit can come with an insulated housing and accompanying thermostatic controlled heaters, which allow operation at temperatures below freezing with collected snow melted and measured as the rainfall equivalent.

Rain or snow is collected in the catchment funnel and drains into the measuring chamber. Each 1 mm of captured precipitation produces a 5 mm rise of the sample column in the measuring chamber, giving added resolution to the measuring circuitry. A full sample column of 250 mm represents 50 mm of collected precipitation. Precipitation in excess of 250 mm starts a self-siphoning process, which empties the measuring tube in approximately 30 seconds.





Technical Specifications

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Range:	0 - 50 mm (0 - 2 in)
Threshold:	1 mm (0.04 in)
Measuring Accuracy:	+/- 2 mm (+/- 0.08 in)
Power:	
Measuring Circuit:	12 VDC unregulated
Heater Circuit:	48 watts at 28 V
Operating Temperature:	-20°C to +50°C with heaters > 0°C to +50°C without heaters
Output Signal:	0 - 5 VDC
PHYSICAL	
Height:	65 cm (25 in)
Catchment Outside Diameter:	14 cm (5.5 in)
Weight of Gauge:	2.5 kg (5.6 lbs)