

Cloudburst Weighing Precipitation Gauge

Solid and mixed precipitation rates at 3000 mm per hour

NEW!



Preliminary Specifications

Precipitation Type	Liquid, solid, mixed
Capacity	30 L / 8 gal
Precipitation Depth	1500 mm/60 in (WMO); 900 mm/35 in (NWS)
Rate (Intensity) Range	0 to 3,000 mm hour ⁻¹
Calibration Accuracy	± 0.1 mm
Output	SDI-12
Output Interval	1 min (unfiltered data); 10 min (filtered data)
Temperature Sensitivity	± 0.01 mm C ⁻¹
Long-term Drift (Non-stability)	< 4 mm yr ⁻¹ (< 0.5 % of capacity per year)
Non-linearity	Less than 0.1 mm
Transducer	Stainless steel strain-gauge bridge load cell
Operating Environment	-20 to 60 C; 0 to 100 % relative humidity
IP Rating	IP67 (load cell and circuitry)
Dimensions/Mass	38 cm diameter, 80 cm height / 12 kg (empty bucket)
Cable	5 m of 3-conductor wire, M8 connector (IP67)
Mounting	Holes for 15.24 cm wood post; Adapter for 10.16 cm pipe
Inlet Heater Voltage/Power Requirements	24 V DC / 50 W (maximum)
Inlet Heater Current Draw	2.1 A

Weighing Gauge

Rugged, large capacity, all-weather weighing precipitation gauge with no moving parts.

Features

- High-accuracy, stable, stainless steel load cell
- Proprietary algorithm to filter the influences of evaporation, vibration, and temperature

Multiple Options

- 8 inch (900 mm / 35 inch capacity) inlet option to match NWS recommendations
- 200 cm² (1500 mm / 60 inch capacity) inlet option to match WMO recommendations
- Multiple models with SDI-12 and Modbus outputs

