

Precipitation Sensors

Rain gages and snowfall adapter



Campbell Scientific offers several types of sensors to measure precipitation: tipping bucket rain gages, siphoning tipping bucket rain gages, heated rain gages, and snowfall adapters. Users often select their precipitation sensors based on the type of precipitation to be measured (rain or snow), as well as the needed orifice diameter, measurement range, and accuracy level.

CS700

Rain Gauge with 8 in. Orifice



The CS700, manufactured by HS Hyquest Solutions, is a high-end tipping bucket rain gauge with an 8 in. orifice and a heavy-duty cast aluminium base. It measures precipitation in 0.01 in. increments. The CS700 is ideal for locations where intense rainfall events may occur. This tipping bucket is compatible with all Campbell Scientific data loggers and is used in environmental monitoring applications.

52202-L

Electrically Heated Rain and Snow Gage



The 52202, manufactured by R. M. Young, is an electrically heated tipping bucket rain gage that measures rain, snow, and other frozen precipitation. Its catchment area of 200 cm² and measurement resolution of 0.1 mm meet the recommendations of the WMO. This heated rain gage is compatible with all Campbell Scientific dataloggers, and it is used in environmental monitoring applications.

SBS500

Coated Aluminium Tipping Bucket Raingauge (0.2mm/tip)



The SBS Range of precipitation sensors (rain gauges) utilises the proven aerodynamic shape of the ARG100 and takes it to the next level. This sensor is manufactured from specifically formed aluminium material which allows for fine tuning of the aerodynamic shape to further reduce the wind effect.

SBS500H

Coated Aluminium Tipping Bucket Raingauge – Heated (0.2mm/tip)



Unlike conventionally shaped rain gauges the SBS500/500H are aerodynamically designed to minimise sampling errors that can occur during wind-driven rain. The deep collector body of the SBS series is also less susceptible to 'splash-out' errors. The profile of these gauges follows extensive research by the Institute of Hydrology at Wallingford in the UK, and is very similar to that derived theoretically and independently by the UK Meteorological Office as an 'ideal' shape.

52203

RM Young Tipping
Bucket Raingauge
(0.1mm/tip)



This rain gauge provides a catchment area of 200cm² and a tip measurement of 0.1mm as per WMO specification. The sensor is manufactured predominantly from moulded thermoplastic components for long and reliable operation. The sensor can either be mounted on a pole or on a flat surface and offers a built-in bullseye level and levelling screws for precise adjustment in the field.

For comprehensive details, visit: www.campbellsci.eu/precipitation 



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