

Precipitation

Rain gages and heated rain gages



Rugged, Reliable, and Ready for any Application



Campbell Scientific offers several types of precipitation measuring devices: tipping bucket rain gage, siphoning tipping bucket rain gage, heated rain gage, and a snowfall adapter.

Sensor selection can be determined by precipitation type (rain or snow), orifice diameter, measurement range, and accuracy.

MAJOR SPECIFICATIONS

TE525 | Rain Gage

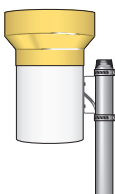
Widely used in environmental monitoring applications



Sensor Type	Orifice Diameter	Resolution	Accuracy	Operating Temperature
Tipping bucket with magnetic reed switch	15.4 cm (6.06 in)	<u>Rainfall per tip</u> 0.01 in (0.254 mm) <u>Volume per tip</u> 4.73 ml/tip (0.16 fl. oz/tip)	1.0% up to 2 in/hour (50 mm/hr)	0° to +50°C

TE525WS | Rain Gage

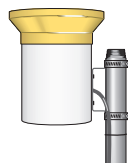
8-in orifice meets the National Weather Service recommendations. Compatible with the CS705 snowfall adapter.



Tipping bucket with magnetic reed switch	20.3 cm (8 in)	<u>Rainfall per tip</u> 0.01 in (0.254 mm) <u>Volume per tip</u> 8.24 ml/tip (0.28 fl. oz/tip)	1.0% up to 2 in/hour (50 mm/hr)	0° to +50°C
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TE525MM | Rain Gage

Monitors rainfall in metric rather than US units



Tipping bucket with magnetic reed switch	24.5 cm (9.66 in)	<u>Rainfall per tip</u> 0.1 mm (0.004 in) <u>Volume per tip</u> 4.73 ml/tip (0.16 fl. oz/tip)	1.0% up to 2 in/hour (50 mm/hr)	0° to +50°C
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CS700 | High-End Rain Gage with Siphon

Rugged, accurate, and ideal for high-intensity precipitation



Tipping bucket with siphon and dual reed switch	20 cm (7.9 in)	<u>Rainfall per tip</u> 0.01 in (0.254 mm) <u>Maximum rate per hour</u> 700 mm/hr (27.6 in/hr)	±2% @ < 250 mm/hr (9.8 in/hr); ±3% @ 250 to 500 mm/hr (9.8 to 19.7 in/hr)	0° to 70°C
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		Sensor Type	Orifice Diameter	Resolution	Accuracy	Operating Temperature
TB4 High-End Rain Gage with Siphon Accurate and Ideal for high-intensity precipitation		Tipping bucket with siphon and dual reed switch	20 cm (7.9 in)	<u>Rainfall per tip</u> 0.01 in (0.254 mm)	±2% @ < 250 mm/hr (9.8 in/hr); ±3% @ 250 to 500 mm/hr (9.8 to 19.7 in/hr) <u>Maximum rate per hour</u> 700 mm/hr (27.6 in/hr)	0° to 70°C
TB4MM High-End Rain Gage with Siphon Monitors rainfall in metric rather than US units		Tipping bucket with siphon and dual reed switch	20 cm (7.9 in)	<u>Rainfall per tip</u> 0.2 mm (0.008 in)	±2% @ < 250 mm/hr (9.8 in/hr); ±3% @ 250 to 500 mm/hr (9.8 to 19.7 in/hr) <u>Maximum rate per hour</u> 700 mm/hr (27.6 in/hr)	0° to 70°C
52202 Electrically Heated Rain and Snow Gage 200 cm ² catchment area and 0.1 mm measurement resolution meet WMO recommendations		Tipping bucket with magnetic reed switch	16 cm (6.3 in)	<u>Rainfall per tip</u> 0.1 mm (0.004 in)	2% for up to 25 mm/hr (1 in/hr); 3% for up to 50 mm/hr (2 in/hr)	-20° to +50°C
CS700H High-End Electrically Heated Rain and Snow Gage Rugged, accurate, and ideal for high-intensity precipitation, even in freezing conditions		Tipping bucket with siphon and dual reed switch	20 cm (7.9 in)	<u>Rainfall per tip</u> 0.01 in (0.254 mm)	±2% @ < 250 mm/hr (9.8 in/hr); ±3% @ 250 to 500 mm/hr (9.8 to 19.7 in/hr) <u>Maximum rate per hour</u> 700 mm/hr (27.6 in/hr)	-40° to 70°C