

# 52202 Series

## Electrically Heated Rain and Snow Gage



R. M. Young's Model 52202 is a heated rain gage that provides year-round measurement of rain or snow. This gage requires a reliable source of 24 Vac power.

The 52202's catchment area of 200 cm<sup>2</sup> and measurement resolution of 0.1 mm meet the recommendations of the WMO. This rain gage funnels precipitation into a mechanism that tips when filled to the calibrated level. Each tip is marked by a magnetic reed switch closure that is recorded by a Campbell Scientific data-logger pulse count channel.

### Mounting

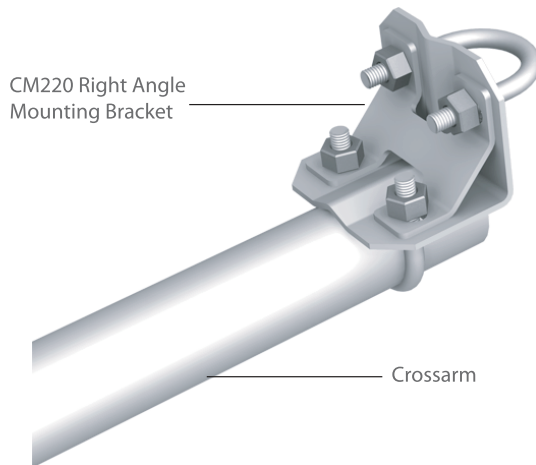
The 52202 can be mounted using a 1 inch IPS pipe, either in ground or to a cross-arm via a CM220 Right Angle Mounting Bracket. Alternatively, the 52202 can be attached to the top of our stainless-steel tripods via the CM216 Sensor Mounting Kit. The CM216 extends 4 in. above the mast of a stainless-steel CM110, CM115, or CM120 tripod.

### Wind Screen

Campbell Scientific offers the Alter Wind Screen to help minimize the affect of wind on the rain measurements. This wind screen consists of 32 leaves that hang freely and swing as the wind moves past them.



The gage is available with the standard powder coated aluminum housing, or the stainless steel version (model 52202-20-L).



A closeup of the CM220 Right Angle Mounting Bracket shows the construction and crossarm attachment.

## Specifications

<b>Sensor Type:</b>	Tipping bucket with magnetic read switch
<b>Accuracy:</b>	2% up to 1 in. hr <sup>-1</sup> (25 mm hr <sup>-1</sup> ); 3% up to 2 in. hr <sup>-1</sup> (50 mm hr <sup>-1</sup> )
<b>Resolution:</b>	0.004 in. (0.1 mm)
<b>Orifice Diameter:</b>	6.3 in. (16 cm)
<b>Catchment Area:</b>	31 in. <sup>2</sup> (200 cm <sup>2</sup> )
<b>Temperature Range:</b>	-20° to +50°C
<b>Humidity Range:</b>	0 to 100%
<b>Power:</b>	18 Watts @ 24 Vac
<b>Contact Rating:</b>	24 Vac/dc, 500 mA maximum
<b>Dimensions</b>	
Diameter:	7.3 in (18.5 cm)
Height:	11.8 in. (30 cm)
<b>Weight:</b>	2.55 lbs (1.16 kg)
<b>Power Plug Weight:</b>	0.95 lbs (0.43 kg)

