

Rain and Snow Gages

Met One's Models 380 & 385

Met One's tipping bucket rain and snow gages offer an accurate method to continuously measure precipitation. Model 380 measures rain only; Model 385 electrically heated snow gage provides year-round measurement of rain or snow. The 385 gage requires an adequately grounded, reliable source of 110 VAC power.

The gages feature a 12-inch diameter orifice that funnels precipitation into the tipping bucket assembly. When the tipping bucket fills, it tips and activates a mercury switch. The switch closure is recorded by the datalogger, which is typically programmed to output total rainfall over a time interval such as an hour or day. If rainfall intensity data are desired, the datalogger can be programmed to record every tip or total rainfall every one to two minutes during the event. A metric version, available on special order, measures precipitation in increments of 0.1 mm.

Options

As shipped, the base of the gage is supported by three legs. The 380MB Mounting/Leveling Base or a user-supplied baseplate with leveling capability is recommended. The 380MB requires a user-supplied concrete pad and a 1.25" diameter threaded pipe to mount the gage at the recommended 1 m measurement height.

Ordering Information

380-L__

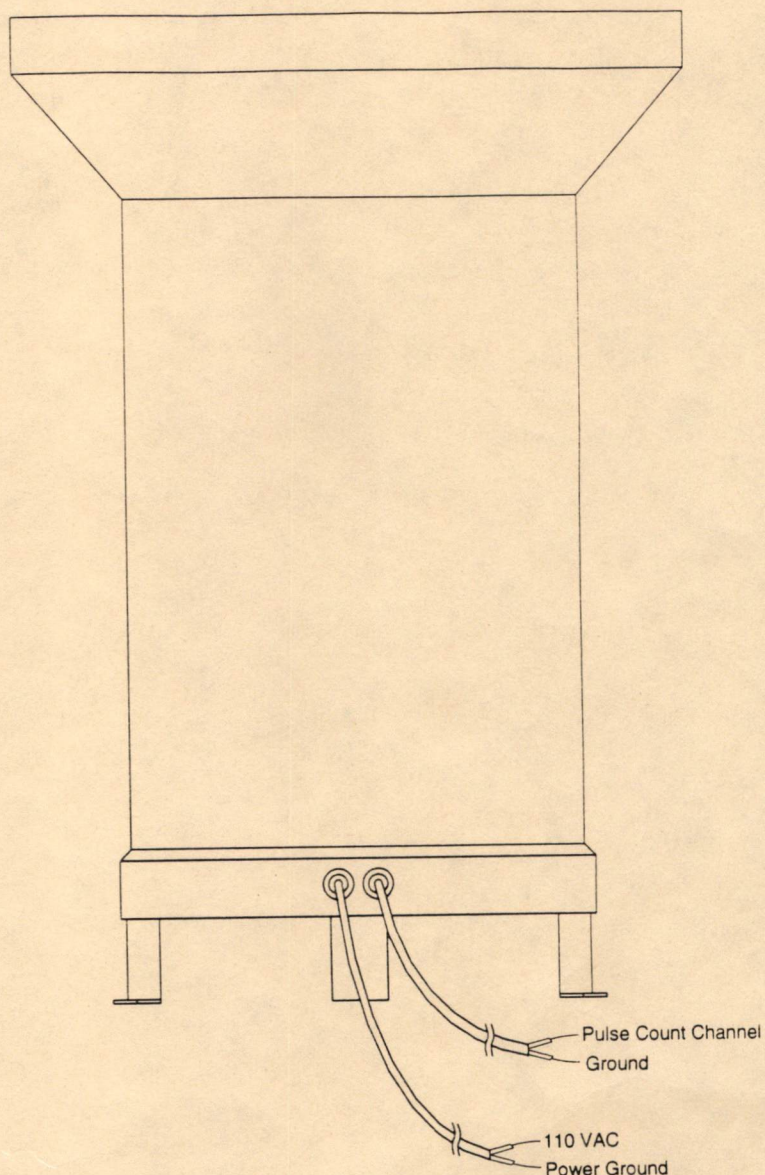
Met One Rain gage (0.01 inch tips). User specifies lead length (in feet) after L.

385-L__ (signal) -P__ (power)

Met One Electrically Heated Rain/Snow Gage (0.01 inch tips). User specifies signal cable lead length (in feet) after L and power cable length (in feet) after P. For example, a 385-L50-P100 orders an electrically heated snow gage with 50' of signal cable and 100' of power cable.

380MB

Mounting/Leveling Base for 380 or 385.



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Specifications

Model 380 Rain Gage

- Orifice: 12-inch diameter (30.5 cm)
- Accuracy: $\pm 0.5\%$ @ $< 0.5"$ (1.25 cm)/hr rate
 $\pm 2.0\%$ @ $< 3.0"$ (7.50 cm)/hr rate
- Resolution: Model 380 0.01 inch
Metric Version 0.1 mm
- Weight: 7 pounds (3.2 kg) w/25' cable
- Shipping Weight: 12 pounds (5.4 kg) w/25' cable
- Cable: 2-conductor shielded cable (user-specified length in feet)
- Operational Ranges: 0 to 50°C; 0 to 100% RH

Model 385 Electrically Heated Precipitation Gage

Specifications same as Model 380 unless listed below:

- Heating Element: 115 VAC (50/60 Hz) 300 W element
- Weight: 11.2 pounds (5.1 kg) w/50' power and signal cable
- Shipping Weight: 16.2 pounds (7.4 kg) w/50' power and signal cable
- Power Cable: 115 V power cable (user-specified length in feet)
- Operational Ranges: -20 to 50°C; 0 to 100% RH



CAMPBELL SCIENTIFIC, INC.

815 W. 1800 N. • Logan, Utah 84321-1784 • (801) 753-2342 • FAX (801) 752-3268
Offices also located in: Australia • Canada • England • France • Poland

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Printed Nov. 1993