

370-380 Series Precipitation Gauges

370-380 Series all-metal precipitation gauges measure rain and/or snow in all environments using a tipping bucket mechanism. The economical tipping bucket design allows accurate, repeatable measurements, requiring no regular maintenance. Each model in the 370-380 Series is optimized to meet particular site and sampling requirements and exceeds EPA specifications.

FEATURES

- Self-emptying, dual chambered tipping bucket
- Jeweled bearings reduce wear and friction
- Funnel screen system prevents debris from clogging gauge
- Stainless steel, Teflon coated bucket
- Corrosion resistant materials throughout
- Bubble level & adjustable feet assure proper mounting
- Optional heating elements for frozen conditions

Operation

When a precise amount of precipitation is collected in one side of the bucket, gravity tips the assembly and activates a reed switch. A momentary electrical contact closure is provided for each increment of rainfall. The sample is discharged through the base of the gauge.



370 Precipitation Gauge

The optional heating elements are thermostatically controlled to melt snow and ice and avoid evaporative loss.

SPECIFICATIONS

PRECIPITATION GAUGES

Model Number	Funnel Diameter	Standard Calibration	Optional Calibration
370	8 inch (20.3 cm)	0.01 in	0.2 or 0.25 mm
372	8 inch (20.3 cm)	0.5 mm	N/A
380	12 inch (30.5 cm)	0.01 in	0.2 or 0.25 mm
382	12 inch (30.5 cm)	0.1 mm	N/A

PRECIPITATION & SNOW GAUGES

Model Number	Funnel Diameter	Standard Calibration	Optional Calibration	Power Requirement
375	8 inch (20.3 cm)	0.01 in	0.2 or 0.25 mm	115 VAC, 315 watts
376	8 inch (20.3 cm)	0.01 in	0.2 or 0.25 mm	220 VAC, 315 watts
377	8 inch (20.3 cm)	0.5 mm	N/A	115 VAC, 315 watts
379	8 inch (20.3 cm)	0.5 mm	N/A	220 VAC, 315 watts
385	12 inch (30.5 cm)	0.01 in	0.2 or 0.25 mm	115 VAC, 315 watts
386	12 inch (30.5 cm)	0.01 in	0.2 or 0.25 mm	220 VAC, 315 watts
387	12 inch (30.5 cm)	0.1 mm	N/A	115 VAC, 315 watts
389	12 inch (30.5 cm)	0.1 mm	N/A	220 VAC, 315 watts

Heaters:

Funnel	240 watts, composite with built-in thermostat
Base	75 watts, composite with built-in thermostat

Thermostat Set Point: Funnel and base heater 40°F (4.4°C)



**Met One
Instruments**

370-380 Series Precipitation Gauges

SPECIFICATIONS

COMMON SPECIFICATIONS TO ALL 370-380 SERIES GAUGES

Operating Temperature:	-58°F to 122°F (-50°C to +50°C)
Accuracy:	±0.5% at 0.5"/hr, ±1"- 3"/hr
Switch:	Reed switch rated at 10 mA, 28 VDC (maximum)

PHYSICAL CHARACTERISTICS

Height:	8 inch	18 in (46 cm)
	12 inch	20.5 in (52 cm)
Weight: <i>(not including cabling)</i>	8 inch Precipitation	6 lbs (2.7 kg)
	12 inch Precipitation	7.5 lbs (3.4 kg)
	8 inch Precipitation/Snow	6.5 lbs (3 kg)
	12 inch Precipitation/Snow	11.5 lbs (5.2 kg)
Finish:	White gloss textured powder coat and clear anodized aluminum	

ACCESSORIES

PN 820440 Wind Screen

The improved Alter-design screen is constructed of 32 free-swinging leaves, greatly improving the accuracy of the catchment by reducing local turbulence.

CABLE (for Models 375-389)

PN 1566 Signal Cable Assembly; specify length in feet or meters
 PN 2517 Power Cable Assembly; specify length in feet or meters

ORDERING INFORMATION

Specify model number, calibration factor, cable length(s), and accessories
Specifications are subject to change at any time.



370 (interior)

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