

MODEL 2400

Tipping Bucket Rain Gauge

- One-Piece Machined Aluminum Bucket
- Accuracy of $\pm 1.5\%$ for 0 to 2 Inches per Hour
- Measures in 1mm and 0.01 In. Increments
- Set-And-Forget Operation



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2400, 2400-2



2400-3

DESCRIPTION:

The 2400 Tipping Bucket Rain Gauge provides state-of-the-art technology for ALERT flood warning. It consists of a 12" diameter housing, a 12" anodized funnel, a 12" anodized debris screen, and a 4" stainless steel screen. The Tipping Bucket Mechanism is mounted on an anodized aluminum base with an integrally mounted bulls-eye level that uses spring-tensioned adjusters for accurate, set-and-forget operation.

The gauge comes complete with 25' signal cable and 5 Pin MS connector. Water is directed into the tipping bucket mechanism which is adjusted to tip when 1mm or 0.01 inch of rain is collected. As the bucket tips, it causes a magnet to pass over a sealed reed switch, closing the switch momentarily. The contact closure is then counted by the circuitry in the data collection equipment. Measurement accuracy is $\pm 1.5\%$ at a precipitation rate of 0 to 2 inches per hour and $\pm 3\%$ for above 2 inches to 6 inches per hour. Water is discharged through drain holes at the base of the gauge housing, these holes are protected by screens to prevent insect entry.

The Model 2400 is designed to fit on a standpipe assembly, but can easily be a "standalone" with the

SPECIFICATIONS:

Catch Bucket	Machined Aluminum
Sensor Type	Form A 2 Wire Switch
Sensor Housing . . .	12" Aluminum Cylinder
Materials	Anodized Aluminum
Event Resolution . .	1mm or 0.01 Inch
Accuracy	$\pm 1.5\%$ for 0 to 2 Inches per Hour $\pm 3\%$ for 2 to 6 Inches per Hour
Contact Closure . . .	Normally Open - Momentary Contact Closure
Output	Pulse Count - Upward
Output Connector . .	5 Pin MS Connector
Orifice Diameter . . .	12 Inch, 2.5 Inch Lip above Screen
Operating Temp . . .	0° C to 60° C, 32° F to 140° F
Signal Output	Normally Open Contact Closure
Mounting	Standpipe Assembly
Cable	Shielded
Cable Length	25 Foot
Size	12" D x 22.5" H
Weight	11 Pounds
Shipping Weight . . .	13 Pounds

ORDERING GUIDE:

Model 2400 Rain Gauge Top Section

OPTIONAL:

Model 2400-1	Rain Gauge Top Section without Spun Cap
Model 2400-2	Roof Mount Option
Model 2400-3	1 mm Tipping Bucket Mechanism w/25' Cable Optional: (2400-10) 0.01 Inch Tipping Bucket Mechanism w/25' Cable
Model 2400-4	Exchange - Form "C" - 3 Wire Reed Switch (Sierra Misco Type)
Model 2400-5	Replacement Funnel
Model 2400-6	Replacement Funnel w/3" Lip
Model 2400-7	Altershield for Rain Gauge
Model 2400-8	Bracket for Altershield & 12" Tube
Model 2400-9	Replacement Screen
Model 2400-11	Top Section Retrofit Kit
Model 5100	Extra Cable, 2 Conductor (1 Foot Increments)

ACCURACY YOU CAN COUNT ON

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