

Mottech Rain Bucket Sensor



Mottech Rain Bucket Sensor is a hydrology, meteorological instrument used to measure the nature of rainfall, and it converts the precipitation into a pulse signal output.

The model can be used in meteorology, hydrology, agriculture, forestry, field monitoring stations and other industries. Combined with rainfall recorder can be used to measure precipitation, precipitation intensity, precipitation time. Mottech Rain Bucket Sensor can be connected directly to any controller in Mottech's system via digital input.

Features and Benefits

Compact size for easy use



High accuracy, good stability



The main body made of high strength ABS



Well-made tipping bucket with low resistance



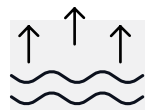
Horizontal Bubble in the bottom



Applications



Meteorological monitoring



Hydrologic monitoring



Natural disaster monitoring



Agrometeorological research



Climate research



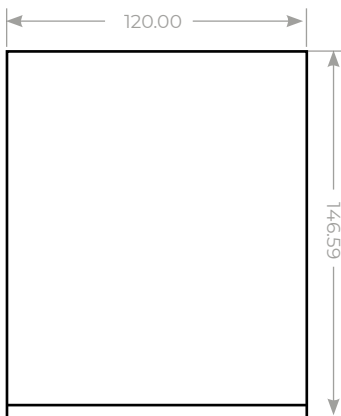
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Technical specification

Item	Technical specifications
Collector	114mm
Measured rainfall intensity	Max: 4mm/min
Allow rainfall intensity	Max: 8mm/min
Resolution	0.2mm
Accuracy(2mm/min)	±4%
Output	Pulses,RS485(12-24VDC supply)
Operating temperature	0-60°C@0%-100%RH
Main material	ABS
Weight(unpacked)	450g
Code	M.SENS-12-P

Dimension & Mounting

Fix the rainfall sensor on the bracket with three screw rods of M4. Keep the whole equipment at the best level to ensure the accuracy of rainfall data.



Working Process

Rainfall is captured in the 114mm diameter collector funnel and is directed through a delivery pipe to fill a divided ABS injection molded tipping bucket device. The bucket is pivoted through its center and has a preset calibration to tip for 0.2 mm of rainfall. When the bucket is "full", it pivots and empties - this action magnetically closes and opens a reed switch, sending a pulse signal to the data logger or electronic counter. Through this tipping "seesaw" action, the other side of the bucket is aligned to receive the flow from the delivery pipe. This recording and tipping cycle continues with rainfall.