



allweatherinc

Optical Rain Gauge Model 6030



- Superior Technology
- Long-term Reliability
- Low Maintenance
- Rugged Design
- Easy Installation
- Self-Diagnostics

Overview

The AWI Model 6030 Optical Rain Gauge is a superior tool for rain measurement. The Model 6030 is the only instrument available to measure true rain rate. This means you avoid the reading errors due to mechanical limitations, which plague other low-tech gauges. No other rain sensor comes close to the Model 6030 in performance and features. Our scintillation technology has undisputed advantages over the competition.

From Antarctica to Saudi Arabia, and from Switzerland to Australia, users worldwide rely upon AWI sensors. Our instruments can be found working for airports, transportation authorities, businesses, municipalities, universities, research institutions, military, and other government agencies. When accuracy counts, AWI is here.

Accuracy

The Model 6030's scintillation technology is the best method for optical measurement of rain. Falling rain causes beam intensity variations in the infrared light as it passes through the beam. These irregularities, known as scintillations, have characteristic patterns, which are detected by the sensor and converted to rain rate.

Reliability

The Model 6030 has a very tough, yet lightweight frame, which can withstand the rigors of the weather. Lens heaters keep the optical path clear of dew or condensation. The enclosure is rated NEMA-4 (IP 66). The instrument is easily installed using a U-bolt configuration to a vertical pole or horizontal bar. The Model 6030 reports rain rate in mm/hr. The output format is a common ASCII delimited data string, which is easily handled by a Data Collection Platform (DCP).

SENSORS

SPECIFICATIONS

Parameter	Specification
Rain Dynamic Range	0.1 to 500 mm/hr
Rain Accumulation	0.001 to 999.999 mm
Rain Accuracy	5% Accumulation
Rain Resolution	0.001 mm
Measurement Technique	Forward Scintillation
Output Format	RS-232 Serial I/O, simple polled protocol
Supply Voltage	Nominal 12 VDC
Fusing	User Supplied 1.0 A Slow Blow
Operating Temperature	-40°C to +50°C (-40°C to +122°F)
Relative Humidity	0–100%
Enclosure	NEMA 4X
Power Supply	AC, 50/60 Hz, 50 V·A

ORDERING INFORMATION

Part Number	Description
6030	Optical Rain Gauge

DIMENSIONS & WEIGHTS

Size (Sensor Head)	29" x 4" x 10" (730 x 102 x 254 mm)
Weight (Sensor Head)	6.6 lbs (3 kg)



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Model 6030
Rev. A 07/2012