

AIO-210: ELECTRONIC WEATHER STATION

FEATURES

- Climatronics All-in-One (AIO) Weather Sensor
- Climatronics 6" Rain Gauge
- Climatronics WeatherView Software
- Battery Backup
- IMP-895 Data Logger

MEASUREMENTS

- Wind Speed
- Wind Direction
- Air Temperature
- Relative Humidity
- Barometric Pressure
- Precipitation

APPLICATIONS

- Environmental Monitoring
- Climatological Studies
- Permanent or Temporary Monitoring Programs

The All-In-One (AIO) Weather Sensor, the principal component of the AIO-210 is a solid-state weather instrument that measures temperature, relative humidity, wind speed, wind direction, and barometric pressure in a single compact, rugged unit.

This Sensor contains no moving parts and therefore requires little to no maintenance. The sensor combines low power sonic transducers with a multi-element temperature sensor, a fast-response capacitive humidity sensor, state-of-the-art barometric pressure sensor and an internal flux-gate compass for automatic alignment of wind direction to magnetic north for quick deployment (true/magnetic North offset is adjustable by the user through software command). The result is a professional grade All-In-One Weather Sensor designed for reliability, longevity, and ease of installation.

The Climatronics AIO-210 is the most versatile, reliable, and affordable weather station available today. The AIO-210 will measure, collect, and



display real-time weather conditions on personal computers, websites, or corporate intranet applications.

The output of the AIO Weather Sensor is a serial, digital ASCII data message, which is seamlessly compatible with the AIO-210 data logger.

The AIO-210 is highly modular and can be configured to operate in remote locations with an optional compact solar panel and rechargeable battery.

MEASUREMENT	RANGE	ACCURACY	RESOLUTION
Wind Speed	0-50 m/s (0-112mph)	±0.5 m/s or 5% of reading ¹	0.1 m/s
Wind Direction	0-360°	±5° @ >2.2 m/s	1.0°
Temperature	-40° to 50°C (-40° to 122°F)	±0.2°C ²	0.1°C
Relative Humidity	0 -100 %	±3 %	1.0 %
Barometric Pressure	600 – 1100 mbar (17.7 – 32.5 in Hg)	±0.35 mbar ³	0.1 mbar
Precipitation	0.25 mm (0.01") increments	1 % @ 0 – 30 mm/Hr	0.25 mm

Notes: ¹ Whichever is greater; ² Sensor element; ³ At constant temperature (25°C)