



ELECTRONIC WEATHER STATION, EWS-2100

FEATURES

- High Survivability
- Excellent Dynamic Response
- Solid State, No Moving Parts
- Integral Data Logger
- Telemetry Options
- Very Easy to Deploy

STANDARD MEASUREMENTS

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

OPTIONS

- Solar Radiation
- Precipitation (Optional Heater)
- Soil/Water Temperature

APPLICATIONS

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

Climatronics' EWS-2100 (P/N 102804) is the most versatile weather station on the market today. The EWS-2100 will record data at a remote location continuously with a compact solar panel and rechargeable battery. A weatherproof fiberglass case protects the data logger, associated communication equipment, and the battery.

Climatronics' AIO Compact Weather Sensor, the principal sensor of the EWS-2100, is a second-generation weather sensor, which includes a number of new features. This is made possible with the improved sensor technology that has resulted from our commitment to product improvement. The AIO incorporates Climatronics' unique folded-path, low-power sonic anemometer, the Sonimometer™, with a temperature sensor, a fast-response, capacitive relative humidity sensor, plus a barometric pressure sensor and an internal flux-gate compass. The AIO wind direction data will automatically be oriented to magnetic North, thanks to the integral flux gate compass.



The AIO Compact Weather Sensor is designed for maximum portability and utility, making it uniquely applicable for rapid deployment and use by one person under all conditions. Please refer to the 102780, AIO data sheet for additional details.

Collection and storage of the EWS-2100 data is handled by our AutoMet 466A data logger, a rugged, reliable, and portable data logger that easily integrates the AIO and up to three additional analog sensors, plus a precipitation gauge. The AutoMet meets the worldwide standards of data collection requirements, specified by organizations like the EPA and WMO. Without complex programming, the AutoMet 466A Data Logger acquires, displays, logs, alarms, and transmits critical data. Once acquired, data can be displayed, stored, or evaluated for alarm conditions. Dual alarms allow relays to trigger local controls, annunciators, or communications devices. Communicating with the AutoMet 466A can be as simple as connecting directly to a PC or printer, or by using a modem, radio telemetry, cellular telephone, or our portable data transport module.

A weather station built around the AutoMet 466A deploys in minutes. The large display and screen-specific keypad provide on-site information and easy programming, with simple to use menu-driven screens meaning that users do not need to understand the complex programming strings required by many other data loggers. The AutoMet 466A can store up to 200 days of data at one hour intervals. Low power consumption means that the AutoMet 466A weather station can be operated from solar panels and rechargeable batteries for use in remote locations. Additional information can be found on the AutoMet Data logger data sheet.



Air Plus Software for Windows® is a complete package for the collection, display, and reporting of particulate and meteorological data. Air Plus provides an easy to use interface for manual and automatic collection of data and report generation. It is included with each EWS-2100 and provides for automatic data collection at specific times or selected intervals from multiple local and remote stations. Data from each device is stored in an SQL database for easy access by other programs that are SQL compatible, or for direct display of the database on a web page using simple API and scripting language. See the Air Plus data sheet for additional details.

MEASUREMENT	RANGE	ACCURACY	RESOLUTION
Wind Speed	0-50 m/s (0-112mph)	±5 m/s or 5% of reading ¹	0.1 m/s
Wind Direction	0-360°	±5° @ wind speed > 2.2 m/s	1.0°
Temperature	-50° to 50°C (-58° to 122°F)	±0.2°C ²	0.1°C
Relative Humidity	0 -100 %	±3 %	1.0 %
Barometric Pressure	600 – 1100 hPa (17.7 – 32.5 in Hg)	±0.35 hPa ³	0.1 hPa
Solar Radiation *	0 - 1400 Wm ⁻²	100 µV/Wm ⁻² (Sensitivity)	0.1 Wm ⁻²
Precipitation *	0.25 mm (0.01") increments	1 % @ 0 – 30 mm/Hr	0.25 mm

* Optional measurement. Notes: ¹ Whichever is greater; ² Sensor element; ³ At constant temperature (25°)



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