

WEATHER MAESTRO

Weather Station

Envirodata's Weather Maestro weather stations are robust, reliable, Australian Made and designed specifically for monitoring your weather conditions.

Features:

- Robust design and construction
- Easy to assemble, easy to use
- Powerful on-board processor
- Low power, ideal for remote siting
- Full instructions & Manufacturer's support
- 10, 12 or 16 channel versions
- Smart Sensor Interfaces
- Current readings, 1 minute, 5 minute and 10 minute, hourly and daily weather data logged in independent memories
- Memories fully configurable
- 8 Mb flash memory for 1,000,000 readings with individual date and time stamp
- Ideal system for meeting Australian Standards, R272 specifications, and EPA requirements
- Australian Made

Designed to survive in harsh conditions, your Weather Maestro weather station will provide reliable, accurate weather recording, no matter the environment.

This robust and reliable system is ideal for EIS, mining, industrial, landfill, road construction, water treatment plants, feedlots and all industries where a reliable long term solution is sought.

On-board data processing, advanced calculations and remote telemetry options give you the weather data you need; when, how and where you want it.

Weather Sensors

Typically, the Weather Maestro will have a range of sensors added, including Envirodata's:

- Air Temperature
- Relative Humidity



- Wind Speed
- Wind Direction
- Rainfall
- Barometric Pressure
- Solar Radiation
- Soil Temperature

Other sensors are easily interfaced to provide a complete solution for your weather monitoring.

Communications and Remote Monitoring

All models feature an RS232 serial connection for on-site downloading of logged data to a laptop. Various telemetry options are also available:

- Cellular and satellite data modems
- UHF radio links
- Direct cable, MODBUS, ethernet and internet

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Software

The Weather Maestro with telemetry (cellular modem or satellite modem typically) is the perfect solution for connecting your weather stations to our WeatherMation LIVE service.

WeatherMation LIVE automates your data collection and provides secure access to your live and historic weather data via our web interface.

Receive SMS or Email alerts, regular notifications, run, edit and save reports securely via your browser.

For direct connection to a laptop, our WMA Direct software provides downloading and reporting capabilities.

Advanced Calculations

Envirodata's Weather Maestro can provide advanced calculations such as: FAO56 evaporation rates / Thermal Work Limit (TWL) / HLI / AHLU / Dew Point / Chill Hours & more, provided the appropriate sensors are connected. This data is saved as if a standard sensor, and can be used to trigger alerts.

Flexible Memory

The memory is divided into 4 independent areas, which can be customised to suit your specific data interval requirements.

The flash memory is retained indefinitely, and data is stored in final text form with date and time stamps.

Factory Programmed

The Weather Maestro is factory programmed, so is fully operational out of the box. New program files are readily available and simple to load.

Installation:

Designed to be self installed. Envirodata also offer a full installation and commissioning service Australia wide. On-site preventative maintenance, calibration checks, repairs and servicing recommended to be done annually, or as required by your licencing.



Specifications:

Inputs

10, 12 or 16 channels. For Envirodata sensors or other sensors with an Envirodata interface.

Smart sensor interface allows custom connection to a wide range of serial sensors.

Built-in Memory

8 Mb on-board flash (non-volatile) memory stores up to a typical total of 1,000,000 value sets (data plus time & date stamp records). Equivalent to 9 months of 10 minute, hourly and daily data, concurrently.

System Indicators

LED indicators, provided for simple identification of operating status and mode.

Battery & Solar Panel

Capacity for up to 10 days operation without sunlight on a typical system.

Battery:

- 12 volt 18.0Ah rechargeable gel cell SLA or
- 12 volt 20.0Ah rechargeable lithium LiFePO₄

Solar panel:

- 50 Watt solar panel typical, custom sizes for custom applications available.

Power Consumption

- 35mA typical plus
- 2.5mA per typical Envirodata sensor plus
- 35mA typical for cell modem