



## WeatherMate 3000 Weather Station Data Logger

Envirodata is proud to introduce a new generation of weather station technology, our 3000 series data loggers designed specifically for recording environmental conditions.

### Features:

- Low cost, compact logger for entry level high quality weather station applications
- Low power, ideal for remote siting
- Robust design & construction.
- Easy to set up & easy to use.
- Up to 5 directly connected standard Envirodata digital sensors
- Custom sensor interfaces available
- Provides current readings, 10 minute, hourly and daily data in 3 independent memory areas (or customised to your logging schedule)
- 8 Mb on-board flash memory (Non – volatile)
- Ideal system for meeting Australian Standards and EPA requirements
- Australian Made

On-board memory for 1,000,000 sets of readings with individual date and time stamp, in a typical weather station system stores 10 years of Daily and Hourly summaries and 365 days of 10 minute data concurrently.

The WeatherMate 3000 series of weather stations are designed to survive in harsh conditions, from the Simpson desert to the Himalayas your system will provide reliable, quality weather recording.

Envirodata's Weather Stations are designed specifically with the user in mind, they are easy to install, easy to use with full instructions and manufacturer support.



### Communication and Remote Monitoring

The WeatherMate 3000 features a serial connection for on-site downloading of logged data to a laptop. Various telemetry options are also available:

- Direct cable, MODBUS, Ethernet & Internet connections
- GSM, Next G, Telephone line modems & UHF Radio links might be available depending on your system specification, please ask us.

## Weather Sensors

Envirodata designs and manufactures a wide range of high quality weather sensors including:

- Air Temperature
- Relative Humidity
- Wind Speed
- Wind Direction
- Rainfall
- Barometric Pressure
- Solar Radiation, PAR, UV Radiation

Other sensors are easily interfaced to the Weather Maestro to provide a complete package.

## Dimensions & Mounting

- IP66 Enclosure: 230 (W) x 139 (H) x 95 (D)
- Aluminium Sunshade & Mast bracket: 240 (W) x 150 (H) x 150 (D)
- Optional LH35 Heavy Duty Aluminium housing available

Envirodata recommends our 2m or 10m instrument stands to provide a complete weather station package.

## Software

Envirodata's Windows EasiAccess software is included in the system package. EasiAccess (EA40) contains weather station management functions, database and full reporting and graphing options. EasiAccess Software operates on 486 and above operating Windows 98, 2000 NT XP & Vista.

## Flexible Memory

The memory is divided into 4 independent areas, which can be customised to suit your specific data interval requirements. A 5th area for diagnostics contains system configuration and information.

The flash memory is retained indefinitely even with no batteries connected. Data is stored in final text form that includes date and time stamps.

Each memory operates like a revolving storage drum. Once full, the oldest data is discarded to make way for new data.

## Programming

The WeatherMate 3000 data logger is delivered with your specified logging schedule loaded so it operates immediately. You can load alternative schedules (supplied on CD) or create your own.

## Specifications:

### Inputs

5 channels, pulse counting. For standard Envirodata pulse sensors or other sensors with a custom interface.

### Data Output

RS232 Serial ASCII text

### 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)

### System Indicators

LED indicators provided for simple identification of operating status and mode

### Battery & Solar Panel

Capacity for up to 1 week's operation without sunlight on a typical system (Connected sensors and communication options can alter the typical power usage.)

#### Battery:

- 12 volt 3.0AH sealed rechargeable gel cell

#### Solar panel:

- 10 Watt solar panel
- 20 Watt solar panel option
- Internal regulator for up to 30 Watt panel

### Power Consumption

- 10mA in logging mode
- 35mA while communicating
- 2.5mA per Envirodata sensor