



Weather Wombat DW50

Weather Station Data Logger & Built in Cellular Data Modem

Envirodata's Weather Wombat combines our powerful and field proven DL3000 series data logger with a built in Cellular Data Modem.

This system is designed specifically for recording your weather conditions, while providing simple telemetry connectivity to our WeatherMation LIVE service.

Features:

- Compact powerful data logger for entry level high quality weather station applications
- Cellular Data modem, CSD or PSD / VPN modes - Remote Telemetry built in!
- Low power, ideal for remote siting
- Robust design & construction.
- Easy to set up & easy to use.
- Up to 5 directly connected 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)
- Australian Made

On-board memory for 1,000,000 sets of readings with individual date and time stamp. A typical weather station with 5 sensors stores 18 Months of Daily, Hourly and 10 minute data summaries concurrently.

The WeatherWombat weather stations are designed to survive in harsh conditions, and still provide reliable, quality weather recording.

Envirodata's Weather Stations are designed specifically with the user in mind, they are easy



Weather Wombat in LH35 housing with wind speed, wind direction and rainfall sensors

to install, easy to use with full instructions and manufacturer support.

Communication and Remote Monitoring

The WeatherWombat features a built in Cellular Data Modem (other telemetry options available

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on request) as well as serial connection for on-site downloading of logged data to a laptop.

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
- Soil Temperature
- Other sensors are easily interfaced to the Weather Wombat to provide your complete weather monitoring solution.

Dimensions & Mounting

- IP66 Enclosure: 230 (W) x 210 (H) x 105 (D)
- Optional LH35 Heavy Duty Aluminium outer lockable housing available

Envirodata recommends our 2m fixed instrument stand or portable Aluminium Tripod.

Software

The Weather Wombat is the perfect solution for connecting up to 5 sensors to the WeatherMation LIVE service.

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

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 even with no batteries connected. Data is stored in final text form that includes date and time stamps.

Once full, the oldest data is discarded to make way for new data.

Programming

The WeatherWombat data logger is delivered with your specified logging schedule loaded so it operates immediately. You can load alternative schedules or create your own.

Specifications:

Inputs

5 channels, pulse counting. For standard Envirodata pulse sensors or other sensors with an Envirodata 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 5 days operation without sunlight on a typical system (Connected sensors and communication options can alter the typical power usage.)

Battery:

- 12 volt 7.0AH sealed rechargeable gel cell

Solar panel:

- 20 Watt solar panel recommended

Power Consumption

- 10mA in logging mode
- 35mA while communicating
- 50mA For Modem operation
- 2.5mA per Envirodata sensor