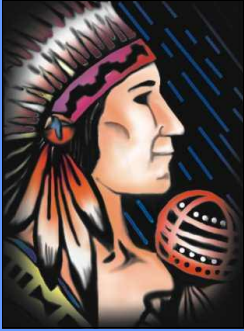


# RAINMAN



*The WM2000 consists of six inbuilt electronic weather sensors, windows database & reporting software, evaporation calculation, data logger, solar panel, battery and powder coated stand.*

*Each sensor continuously sends information to the data logger, which processes and stores the data in its memory. The data is then available for collection and analysis using a personal computer.*

- Environmental monitoring
- Industrial monitoring
- Agricultural monitoring
- Scientific research
- Measures Rainfall, Windfall, Wind Direction, Air Temperature, Relative Humidity, Solar Radiation & Evaporation Rate
- One optional extra sensor (barometric pressure, leaf wetness, soil temperature, grass temperature)
- Current readings for weather records (15 minute, hourly & daily summary)
- Solar powered
- Cable connection to personal computer or laptop



## Weather Master 2000

*The **WeatherMaster 2000** is a compact, robust automatic weather station.*

# RAINMAN



## TECHNICAL SPECIFICATIONS

### SENSORS

<b>Air Temperature</b>	-15.0°C to + 50.0°C. Accuracy +/- 0.2°C. Calibrated at 0.0°C & 25.0°C.
<b>Relative Humidity</b>	Electronic capacitance type. Accuracy +/-5% Range 10-90%.
<b>Rainfall</b>	Tipping bucket mechanism. 0.2mm resolution
<b>Wind Speed</b>	3 Cup 66mm Anemometer. Resolution 10m. Starting threshold 1kph.
<b>Wind Direction</b>	Optical shaft encoder. Resolution 6° Accuracy +/- 6°
<b>Solar Radiation</b>	Global incoming with cosine correction. Accuracy +/- 5%. Cosine accuracy +/- 3%.

### DATA RECORDER

#### Memory

Data stored into 3 independent memory areas. 104k battery backed RAM—stores a total of 29,000 data readings (plus time & date stamp records).

<b>System Indicator</b>	1 second flash - communicating; 2 second flash - normal; 4 second flash - fault
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#### Battery

6 volt 3.0AH internal sealed rechargeable gel cell - capacity for 6 weeks operation without sunlight.

#### Power Consumption

3mA in operating mode. 40mA while communicating. 0.8mA shutdown mode.

#### Solar Charger

1.5 watt panel—maintains battery with three hours bright sunshine per day.

#### Programming

Pre-programmed with universal program - stores daily summary (memory 1), hourly sensor data (memory 2) and 15 minute data (memory 3).

#### Weight

Complete system is 7kg (without mounting bracket).

#### Lightning Protection

Software failure as a result of a nearby lightning strike initiates an automatic circuit 'watch dog' to restart the logger within a minute, ensuring data stores is uninterrupted.

#### RS232 Connection

6 pin (serial RS232C standard). DTR, DSR, TX, RX, ground & power. 300 to 9600 Baud.



*\*Note that specifications are subject to change without notice*