



Weather Master 3000

Compact Robust Weather Station

The WeatherMaster 3000 is a powerful, full featured weather station, designed and built in Australia.



Features:

- Robust & Durable
- Easy to install, easy to use
- Permanent Site or Easily Transportable
- Powerful built in Data Logger
- Low power use, ideal for remote siting

The WeatherMaster 3000 is designed to survive in harsh conditions and to provide reliable, accurate weather data logging with a 20+ year field life.

Swap-out sensors and rugged design make field servicing and calibration simple.

6 primary weather sensors as standard (WM30);

- Rainfall (TBRG)
- Wind Speed
- Wind Direction
- Air Temperature
- Relative Humidity
- Solar Radiation

Other sensor combinations are available, plus two extra channels for expansion.

Over 12 months of intensive data storage is typical.

Adding remote telemetry and our WeatherMation LIVE service automates your data collection and processing, giving your users weather data how and when they need it.

The WeatherMaster 3000 is a true commercial grade weather station, with Australian Made quality.



WeatherMaster 3000 shown on optional tripod with solar panel and VPN Cellular modem, connected to WeatherMation LIVE.

A complete remote weather monitoring package

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Specifications:

Sensors

Air Temperature:

- Range: -10.0°C to + 60.0°C
- Accuracy +/-0.1°C
- Resolution 0.05 °C

Relative Humidity:

- Accuracy +/-2% for 5-95% else +/-3%
- Range 0-100%
- Resolution 0.1%

Rainfall:

- Tipping bucket & Brass Syphon
- Hall Effect Sensing
- 0.2mm resolution
- +/- 3% accuracy up to 300mm/hr rates
- 450mm/hr continuous operation

Wind Speed:

- 3 Cup 66mm Anemometer
- Rating: 0 to 80m/s
- Resolution: 0.1m/s
- Starting threshold 0.30m/s

Wind Direction:

- Hall Effect Sensing
- Resolution: 1 degree
- Accuracy +/-2 degrees
- Active range 0 to 360 degrees - No Gap

Solar Radiation:

Global incoming radiation with cosine correction:

- Accuracy: +/-5%
- Cosine corrected accuracy: +/-3%

System Status Sensors (standard):

- Battery & Charge Voltage
- Load & Charge Current

Built-in Memory

64 Mbit on-board flash (non-volatile) memory stores a typical 12 Months of 10 Minute, hourly and daily summaries. Configurable to suit your needs.

Data is stored in final text form that includes date and time stamps and is retained indefinitely.

Alarms

- 2 on board low voltage solid state outputs

Calculations

Optional Data Logger based calculations include:

- FAO56 Reference Evapotranspiration - ETo
- Sigma Theta & Vector Wind data
- Thermal Work Limit - TWL & WBGT

Communications

Cell Modem, UHF, Satellite, LAN or MODBUS

WeatherMation LIVE service

Data Output

RS232 Serial ASCII text

Battery & Solar Panel

Capacity for 8 days' operation without sunlight on a typical system

Battery: 12 volt 7.0AH sealed rechargeable gel cell

Power Consumption

- 25mA (standard sensors)

Primary WM30 Model Variants: WM30E

Removes Solar Radiation - 5 Sensors built in
RG / WS / WD / TA / RH

WM30BP

Replaces Solar Radiation with Barometric Pressure
RG / WS / WD / TA / RH / BP

WM30NRG

Removes Rain Gauge - 5 Sensors built in
WS / WD / TA / RH / SR

WM30TWL

Replaces Solar Radiation with Black Globe Temp
RG / WS / WD / TA / RH / BG