



## Weather Master 3000

### Compact Robust Weather Station

The WeatherMaster 3000 is a compact, reliable, full featured automatic 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, ideal for remote siting
- 6 primary weather sensors as standard;
  - Rainfall (TBRG)
  - Wind Speed
  - Wind Direction
  - Air Temperature
  - Relative Humidity
  - Solar Radiation
- Other sensor combinations available
- Expansion for 2 additional sensors
- Logging schedule easily customised
- Over 12 months intensive data typical.

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.

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

On-board data processing, calculations and remote telemetry options, combined with our WeatherMation LIVE service automate your data collection and processing, giving you weather data how and when you need it.



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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 mechanism with Syphon
- Hall Effect Sensing
- 0.2mm resolution
- +/- 3% accuracy up to 300mm/hr rates
- 400mm/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 degrees
- 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
- Chill hours

#### Communications

Cell Modem, UHF, Satellite, LAN or MODBUS & WeatherMation LIVE service

#### Data Output

RS232 Serial ASCII text

#### Battery & Solar Panel

Capacity for up to 2 weeks' operation without sunlight on a typical system

**Battery:** 12 volt 7.0AH sealed rechargeable gel cell

#### Power Consumption

- 15mA in logging mode (standard sensors)
- 35mA while communicating

#### Primary 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