



## Weather Master 3000F

### Compact Robust Feedlot Weather Station

The WeatherMaster 3000F is a compact, reliable, full featured and state of the art automatic weather station, designed and built in Australia.

#### Features:

- Robust & durable
- Easy to install, easy to use
- Powerful built in Data Logger
- Low power, ideal for remote siting
- 6 primary Feedlot weather sensors as standard;
  - Wind Speed
  - Wind Direction
  - Rainfall (TBRG)
  - Air Temperature
  - Relative Humidity
  - Black Globe Temperature
- HLI & AHLU built into the system as standard
- 2 additional sensors can be added
- Current readings, 10 minute, hourly and daily weather data
- Logging schedule easily customised
- Over 12 months data storage typical.

The WeatherMaster 3000F draws on Envirodata's 30 years experience designing and supplying weather stations around Australia and the world. Combining our purpose built Weather Maestro Data Logger functionality and the WeatherMaster design concept; the WeatherMaster 3000F is powerful, compact and robust.

In order to meet the needs of feedlot operators in a compact and economical package we have replaced the standard Weathermaster solar radiation sensor with the Black Globe Temperature sensor.



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Then we added the HLI and AHLU calculations to be a standard part of the WeatherMaster package.

Designed to survive in harsh conditions, your WeatherMaster 3000F will provide reliable, accurate weather data logging in any Lot Feeding situation.

On-board data processing, calculations and remote telemetry options, combined with our WeatherMation software, or a data connection to Katestone give you weather data how and when you need it.

### **Flexible Memory**

The flash memory can be customised to suit your specific data interval requirements. Data is stored in final text form that includes date and time stamps and is retained indefinitely even with no batteries connected.

## **Specifications:**

### **Sensors**

#### **Air Temperature:**

- Range: -20.0°C to + 60.0°C
- Accuracy +/-0.1°C
- Resolution 0.05 °C

#### **Relative Humidity:**

- Accuracy +/-2% for 5-95%
- 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 0.35m/s

#### **Wind Direction:**

- Hall Effect Sensing
- Resolution: 1 degrees
- Accuracy +/-2 degrees
- Active range 0 –359 degrees - No Gap

#### **Black Globe Temperature:**

- Range: -20.0°C to + 80.0°C
- Accuracy +/-0.1°C
- Resolution 0.05 °C

#### **Extra Sensors (Optional – two only):**

Additional sensors can be connected including any of Envirodata's standard sensors, or the many third party sensors we interface to.

#### **System Status Sensors (standard):**

- Battery & Charge Voltage
- Load & Charge Current

#### **Alarms**

- 2 on board low voltage solid state outputs
- 4 SMS alerts (if optional modem connected)

#### **Calculations**

Optional Data Logger based calculations include:

- FAO56 Reference Evapotranspiration
- Sigma Theta & Vector Wind data
- Chill hours

#### **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

**Solar panel:** 5, 20 or 30 Watt solar panel options

#### **Power Consumption**

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