

# Meteorological Sensors

## Rainmaster 1000

Ecotech's Rainmaster 1000 Tipping Bucket Rain Gauge is a simple, reliable device for sampling rainfall. Rain water enters the collection funnel and is directed into one side of a double sided tipping bucket. The Rainmaster 1000 is calibrated to collect pre-determined amounts of water in a series of tipping buckets. This process continues as long as precipitation falls into the collection funnel. The rainwater can easily be collected in a bottle located beneath the rain gauge for sample verification or further analysis.

Maintenance is limited to the occasional cleaning of debris from the collection funnel to ensure accurate collection of rainfall. A stainless steel mesh screen is fitted to stop large debris from entering the rain gauge.



## Features

- Tipping bucket operation (self emptying).
- Teflon coated bucket.
- No maintenance Teflon® bearings
- Quality reed-switch contact-closure output.
- Made from corrosion resistant materials.
- Collection capability for sampling or verification.

## Specifications

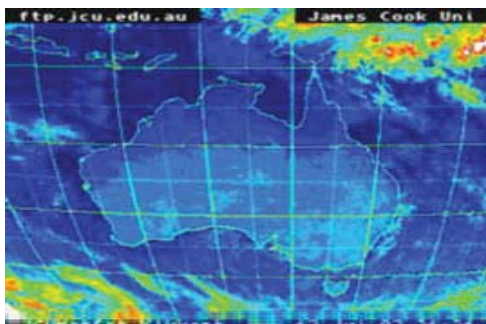
Model No:	ECO-1001W
Funnel diameters:	8"
Calibration:	0.25mm (8")
Output:	Contact-closure switch rated 10mA at 28VDC
Accuracy:	+/- 3% (7-250mm/hour range)
Mounting methods:	Three adjustable feet or Tripod base elevated rain gauge above ground by 475mm

## Barometric Pressure Sensor 1000

The BPS1000 is a highly accurate barometric pressure sensor designed for use in meteorological monitoring applications. Robust and durable, the BPS 1000 is sealed in a weatherproof, UV resistant plastic enclosure.

The BPS1000 Barometric Pressure Sensor provides a 0-5 V output over a range of barometric pressures between 800 to 1100 mBar. Internal voltage regulation allows the device to operate from a single power supply between 7 and 24 V. A potentiometer adjusts output for changes in altitude.

### Specifications



<b>Operating range:</b>	800 to 1100 mBar
<b>Proof pressure:</b>	2 Bar
<b>Voltage Output:</b>	0-5 VDC
<b>Operating temp.:</b>	-40 deg C to 85 deg C
<b>Compensated Temp. Range:</b>	-10 deg C to 60 deg C
<b>Non linearity :</b>	0.1% FS
<b>Repeatability:</b>	0.2% FS
<b>Temperature shift:</b>	0.3% FS/10 deg C
<b>Response time:</b>	1 msec
<b>Long term stability:</b>	0.1% FS

## MicroVol-1100 Weather Station

The MicroVol-1100 Weather Station is a multi-parameter weather detection and data logging unit. The MicroVol-1100 Weather Station can log multiple parameters including humidity, temperature, wind speed, wind direction and pressure.

The MicroVol-1100 Weather Station can continuously update parameters via the internet and provide up-to date weather details. The MicroVol-1100 can store up to 2 days of 15 minute average data which is accessible through the internet or via RS-232.



MicroVol 1100 with PM10 inlet and optional battery pack

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