



## EWS Automatic Weather Station

The AWS includes an EMT satellite logger, a multi-sensor ultrasonic weather sensor, a tipping bucket rain gauge with mounting bracket, and a 3m popup tripod mast. It can provide near real-time weather data from anywhere in the world via the Iridium satellite network.

### Features

**Satellite Connectivity** eliminates the need for logger networks, gateways, and cellular connections.

**Monitored Parameters** include wind speed, wind direction, relative humidity, temperature, atmospheric pressure, and rainfall. Measurements are typically obtained at 15 minute intervals and transmitted hourly.

**Self-Powered:** The included EMT logger can operate for extended periods on rechargeable batteries and includes a clip-on solar panel.

**Alarm Detection:** Alarm threshold values can be set on any input. The EMT logger include a relay that can activate pumps or warning devices when alarms are detected.

**Designed for Harsh Environments:** EWS loggers operate in temperatures from -40-+80°C and have IP67 rating for water resistance



## Sensor Specifications

### Wind Speed

Range: 0 to 70m/s (0 to 156 mph)  
Resolution: 0.1m/s (0.22 mph)  
Accuracy:  $\pm 3\%$

### Wind Direction

Range: 0-359°  
Resolution: 1°  
Accuracy:  $\pm 3^\circ$

### Atmospheric Pressure

Range: 300-1100hPa  
Resolution: 0.1hPa  
Accuracy:

### Humidity

Range: 0-100%RH  
Resolution: 1%  
Accuracy:  $\pm 1$

### Temperature

Range: -40 to 80°C (-40 to 176°F)  
Resolution: 0.1°C  
Accuracy:  $\pm 0.5^\circ\text{C}$

### Power

Supply: 12V DC  
Consumption: 1.7W



## Tipping Bucket Specifications

### Range, Resolution, Accuracy

Range: 0~240mm/hr (0 to 19 inch/hr)  
Resolution: 0.2mm or 0.5mm  
Accuracy:  $\pm \leq 2\%$  ( $\leq 240\text{mm/hr}$ )  
 $\pm \leq 3\%$  ( $\leq 340\text{mm/hr}$ )

### Design

Inner diameter: 200mm/8inch  $\pm 0.3\%$   
Acute angle of cutting edge: 45%  
Discharge control: Straight through flow  
Output pulse: Reed switch  
Level control: Bulls eye level adhered

### Installation & Dimensions

Base: Stainless steel  
Mounting holes: Three mountings  
Height: 402.2mm (16 inch)  
Weight: 3.3kg (7.3 lb)