

Automatic Weather Station

Overview

The EWS Automatic Weather Station leverages the versatility of the EWS Solar-Mount Device and combines it with our ultra-low power, ultrasonic weather sensor to provide a cost-effective, compact and easy-to-deploy solution for remote weather monitoring. The compact setup has the ability to log and transmit wind speed, wind direction, humidity, temperature, solar radiation, and rainfall data remotely over either 4G or Iridium Satellite communications. It comes mounted on a portable 3m tripod mast for easy installation and relocation and is perfect for a range of industries where real-time knowledge of localised weather conditions is important including mining, construction and agriculture.

Features

- ✔ Utilises the versatile EWS Solar-Mount Device for multi-communication data transmission over 4G or satellite.
- ✔ Ultra-low power draw weather sensor powered by Solar-Mount device.
- ✔ Measures wind speed, wind direction, temperature, humidity, pressure, solar radiation and rainfall.
- ✔ Highly accurate readings.
- ✔ 3m pop-up tripod mast.
- ✔ Mast stabilised by guy-wires and fixed with pegs.
- ✔ Compact, discreet and lightweight.

Benefits

- ✔ Cost-effective and reliable solution for all remote weather monitoring applications.
- ✔ Combination of ultra-low power sensor and compact EWS Solar-Mount make the setup very small and light.
- ✔ Tipping bucket rain gauge connects to same device.
- ✔ No bulky cabinets or solar panels required.
- ✔ Quick and easy to install with no support infrastructure required.
- ✔ Portable and easy to relocate.
- ✔ Ideal for mining, construction, agriculture and other industries



SPECIFICATIONS

Specifications subject to change without notice.

OUTPUT

MODBUS 485

RANGE

Wind Speed	0-70m/s
Wind Direction Atmospheric	0-359°
Temperature	-40-+80°C
Atmospheric Humidity	0-100%RH
Atmospheric Pressure	300-1100hPa
Rainfall	0-480mm/hr
Radiation	0-2000W/m ²

RESOLUTION

Wind Speed	0.1m/s
Wind Direction	1°
Atmospheric	0.1°C
Temperature Atmospheric	1%
Humidity Atmospheric	0.1hPa
Pressure Rainfall	0.2mm
Radiation	0.1W/m ²

ACCURACY

Wind Speed	±3%
Wind Direction	±3°
Atmospheric	±0.5°
Temperature Atmospheric	±5%
Humidity Atmospheric	±1
Pressure Rainfall	±2%
Radiation	±5%

POWER SUPPLY

12V DC

POWER CONSUMPTION

1.7W