AUTOMATIC WEATHER STATION (AWS)

# WEATHER STATION SENSORS

- Wind Speed
- Wind Direction
- Temperature
- Relative Humidity
- Rain Fall
- Solar Radiation
- Barometric Pressure

#### **Features**

- It can be customized according to the application.
- Can be mounted on buildings, vehicles or tripod.
- ← Data can be output to a remote server using various means of communications.
- High sensor accuracy.
- Easy to install and to maintain.
- Plug & Play sensor.
- Solar powered option available.
- Robustness.
- Automatic Telemetry / Communication.
- Data storage.



# LIVE AND ANALYSIS SOFTWARE FOR AWS

- Possible to add formatted data from .csv file.
- Possible to give command from the software to the remote weather station for different purpose.
- · Live Graphical view for all parameter.
- Monthly / yearly / daily weather parameter analysis in graphical and text format and report exported into PDF.
- Wind Rose and Solar day Calculation.



#### **DATA LOGGER**

Protocol Support: Modbus, IEC-104, MQTT
 GPRS / GSM Support

 RS-232, TCP port available for communication to central server.

Plot- 118, 1st Floor, Block- BB 1951 Rajdanga Main Road, Beside Siemens, Kolkata, West Bengal 700107

Features -



### REDE-AWS001



The REDE Automatic Weather Station (AWS) measures all weather data like wind speed, wind direction, PV temperature, ambient temperature, humidity, rainfall, solar radiation, evaporation etc along with inverter data and energy meter data. REDE AWS have different communicates facilities RS485 MODBUS, Ethernet, MQTT and to cloud on GSM/GPRS by which it can easily communicate with the third party SCADA/ PLC or any control system.

#### **Data logger Features:**

- Local Storage and online remote data transmission
- Data download and several report
- Uninterruptible Power Supply (Optional Solar Panels available)
- Robust Instrumentation Tower and Mounting Hardware
- Web Interface

# MAR DORR

#### **Central Software Basic Features**

- See current conditions at a glance on the instant weather bulletin.
- Graph data on a daily, weekly, monthly, or yearly basis.
- Generate Weather Watcher reports in National Climatic Data Center (NOAA) format
- Choose a storage interval of 1, 5, 10, 15, 30, 60, or 120 minutes.
- Store up to six months worth of data, depending on the chosen storage interval. The data Logger uses non-volatil
  memory, so you won't lose the data in the logger, even if you lose power.
- Transfer data from the data logger to your computer as often as you like to create your own weather database.

## **REDE-AWS001**



#### **Technical Specification**

Sensor Type         3 cup type anemometer           Sensor Sensor Material         Wind Cup- Polycarbonate           Range         1 to 200 mph, 1 to 173 knots, 0.5 to 89 m/s, 1 to 322 km/h           Starting velocity Typically         0.3m/s           Resolution         1 mph (1 knot, 0.1 m/s, 1 km/hr)           Accuracy         ±2 mph (2 kts, 3 km/h, 1 m/s) or ±5%, whichever is greater           Wind Direction Sensor-Specification           Sensor Wind vane         Wind vane           Sensor Material         UV-resistant ABS           Range         0 - 359°           Resolution         1°           Accuracy         ±3°           Solar Radiation Sensor-Specification           Sensor Type         Silicon photodiode           Range         0 to 1800 W/m2           Accuracy         ±5% of full scale (Reference: Eppley           PSP at 1000 W/m2 ) plus 45 W/ m2 per 100' (30 m) of additional cable           Drift         up to ±2% per year           Housing Material         UV-resistant PVC plastic           Temperature Sensor-Specification         T           T Accuracy         ±0.3°C           T Resolution         0.1°C           RH Sensor Probe         Humidity Capacitance           T Measuring Range         0 - 100%	Wind Speed Sensor-Specification	
Sensor Material         Wind Cup- Polycarbonate           Range         1 to 200 mph, 1 to 173 knots, 0.5 to 89 m/s, 1 to 322 km/h           Starting velocity Typically         0.3m/s           Threshold         0.3m/s           Resolution         1 mph (1 knot, 0.1 m/s, 1 km/hr)           Accuracy         ±2 mph (2 kts, 3 km/h, 1 m/s) or ±5%, whichever is greater           Wind Direction Sensor-Specification         Wind Vane           Sensor Type         Wind Vane           Sensor Material         UV-resistant ABS           Range         0 -359°           Resolution         1°           Accuracy         ±3°           Solar Radiation Sensor-Specification           Sensor Type         Sillicon photodiode           Range         0 to 1800 W/m2           Accuracy         ±5% of full scale (Reference: Eppley           PSP at 1000 W/m2 ) plus 45 W/ m2 per 100' (30 m) of additional cable           Drift         up to ±2% per year           Housing Material         UV-resistant PVC plastic           Temperature Sensor-Specification         T           T Accuracy         ±0.3°C           T Resolution         0.1°C           RH Sensor Probe         Humidity Capacitance           T Measuring Range         0 - 100%RH	Sensor Type	3 cup type anemometer
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Accuracy ±2 mph (2 kts, 3 km/h, 1 m/s) or ±5%, whichever is greater  Wind Direction Sensor-Specification  Sensor Type Wind Vane Sensor Wind vane and potentiometer  Sensor Material UV-resistant ABS  Range 0 - 359°  Resolution 1° Accuracy ±3°  Solar Radiation Sensor-Specification  Sensor Type Silicon photodiode  Range 0 to 1800 W/m2  Accuracy ±5% of full scale (Reference: Eppley PSP at 1000 W/m2) plus 45 W/ m2 per 100' (30 m) of additional cable up to ±2% per year  Housing Material UV-resistant PVC plastic  Temperature Sensor-Specification  T Sensor Probe NTC  T Measuring Range -30 to +60°C  T Accuracy ±0.3°C  T Resolution 0.1°C  RH Sensor Probe Humidity Capacitance  T Measuring Range 0 -100%RH T Accuracy ±3 % RH  T Resolution 31% RH Interface RJ45  IP Class IP64  Rainfall Sensor-Specification  T Spensor Type 1 Tipping bucket with magnetic reed switch  Aperture 214 cm²		1 mph (1 knot, 0.1 m/s, 1 km/hr)
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Sensor Type     Tipping bucket with magnetic reed switch       Aperture     214 cm²		1F04
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2.00" per hour (0.2 mm and 50.0 mm per hour); ±5%, ±1 rainfall count between 2 00" and 4.00" per hour (50.0 mm and 100.0 mm per hour)	Accuracy	
Capacity 9999 mm	Accuracy	00" and 4.00" per hour (50.0 mm and

#### **Contact**

REDE Scalable Energy Management Pvt. Ltd 1st floor, BB Block, Plot no-118, 237-Shanti Pally, Kolkata-700107

## **REDE-AWS001**





#### **Contact**