

# AUTOMATIC WEATHER STATION



SS-AWS an automatic weather station also known as Weather Monitoring System consists of atmospheric temperature, relative humidity, atmospheric pressure, wind speed & direction and rainfall sensors. The station consists of various types of sensors, meteorological data collector, chassis, support and other parts. The number of sensors can be increased depending upon the users requirement. SSMET's weather stations are specifically designed to meet professional requirements. Even in extreme environmental situations, they ensure long-term accurate measurements. Sensors specifications are complied as per IMD (India Meteorological) and WMO standards (World Meteorological Organization). The data logger used in SS-AWS is highly advanced with an built in GPRS Modem to transmit the data on to customer server through various communication modes. It can be widely used in meteorology, hydrology, agriculture, solar, forestry, scientific research and other fields.



2.5m Tripod



2.5m Tripod



10m Supporting rod

## Features

- Professional Weather Stations
- High accuracy sensors designed as per IMD (India Meteorological) & WMO (World Meteorological Organization)
- High long-term stability
- Strong resistance to harsh environment
- Automatic storage and backup
- Convenient data download
- Various communication options such as FTP, Email, SMS etc.
- Low Power Consumption
- Fixed and Portable Options available

### Available Options:

There are different versions of weather stations available (key three are listed below). All of them includes the following:

- Sensors (as per requirement) with cables and accessories.
- SS-HydroMet Data Logger
- Mounting Accessories such as Mast and Enclosure
- Power Supply i.e., Solar Panel, Charge Controller Batteries for remote stations or 12V adapter for applications where electric power is available.

Parameters	Sensor	Model No.	General	Agriculture	Solar
Air Temperature & Relative Humidity	Thermo-Hygrometer with Radiation Shield	SS-TH-02, SS-TH-RS	✓	✓	✓
Absolute Pressure	Barometer	SS-PS	✓	-	-
Wind Speed & Direction Sensor	Cup Anemometer Wind Vane	SS-WSS-02, SS-WDS-02	✓	✓	✓
Rain	Tipping Bucket Rain Gauge	SS-TBRG-01	✓	✓	✓
Solar Radiation	Pyranometer	SS-SRS-01	-	✓	✓
Soil Moisture & Temperature	Soil Temperature & Humidity Sensor	SS-SMTS	-	✓	-
Data Logger	-	SS-HydroMet	✓	✓	✓
Mounting Accessories	-	-	✓	✓	✓
Power Supply	-	-	✓	✓	✓

Even after installing all the above sensors SS-HydroMet data logger still has sufficient free available input ports for adding additional sensors as per user application which are not included above.

### Block Diagram:

