

Advance Weather Station

Introduction

- AdvanceTech India is proud to introduce a new generation of weather station technology our environmental data loggers are designed specifically for recording environmental conditions with solar power and wireless alerts , and recordings .

Features

- Low power, ideal for remote siting
- Full instructions & Manufacturer's support
- 6, 10 channel
- Current readings, 10 minute, hourly and daily weather data logged in independent memory areas (or customized schedule)
- Extensive 8 Mb on-board flash memory (Non- volatile) Around 1,000,000 Sets

Communication & Remote Monitoring

- All models feature a serial/ USB / memory card connection for on-site downloading of logged data to a laptop. Various telemetry options are also available:
- GSM, network based data sms alert
- Local wireless sensor network based system GPRS Facility.

Weather Sensor

- AdvanceTech India Pvt. Ltd. manufactures a wide range of high quality weather sensors including:
 - Air Temperature
 - Relative Humidity
 - Other sensors are easily interfaced to the Weather Maestro to provide a complete package.
- Rainfall
- Soil Moisture

Software

- Each Weather data logger is supplied with a software which downloads and displays the weather data, and provides high level reporting functions.
- Optional :- We can display a data of wide range LCD Display.

Battery & Solar Panel

- The system has optional battery Capacity for up to 3 weeks' operation without sunlight on a typical system , the system is supplied with a complete solar based charging station.

Battery

- 12 volt 12.0AH sealed rechargeable gel cell

Solar Panel

- 10 Watt solar panel
- 20 Watt solar panel option
- Internal regulator for up to 30 Watt panel



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System Indicators

- LED indicators provided for simple identification of operating status and mode.

Data Logger

- Weather station Data Logger feature latest technology items With facility for data acquisition and recording in memory , into SD card. It has facility for inputs of up to 8 channel(4 channel for analog/Digital .Variable sampling rate to log data from interval of 600 sample/sec to 1 sample/week. This data logger come with LCD display , battery backup , portable and PC interface thru USB , serial .
- **Optional** : Ethernet interface for cloud connectivity .

Specification

- **Design**: Microcontroller based (ARM) with 8 channel available for sensors
- Channel for **analog/Digital** each .
- **Display**: 20*4 LCD Display/ Touch Panel .
- **4 channel Analog Sensor Input**: like temp , humidity etc
- **4 channel Digital Sensor Input**: PIR/Fire Sensor/Vibrationsensor/Magnetic Sensor.
- **Memory**: SD Card (For Available in selected module only).
- **Options**: High rate/Low rate/Trigger mode/Channel Selection/buzzerAlarm.
- **Log Interval**: 600 samples/sec to 1sample/week.
- **Timing**: Build In Real Time Clock.
- **Supply**: AC operated/Battery Operated/DC Operated.
- **Data Storage**: In aMs Excel Sheet, Each records are stored with Time &Date
- **Relay Interface**: Can be used to interface a +12V DC component.
- **Data Logging**: Real Time with programmable log and storage time.
- **Settings**: Using a Hex keyboard to set the various parameters, to configure the channel and to manually set rate for the sample and hold the channel number.
- **Size**: 96x96 mm Industrial Panel.
- **Enclosure**: Hand Held / Wall mountable / Panel Mountable.

Sensors Specification

- **Temperature Sensor** Range :-50 to 50 °C (suffix C) , Accuracy+/- 0 °C: ±0.3 °C**
- **Humidity Sensor** Range :- 0 to 100% RH, Accuracy+/-2% RH
- **Wind Speed** :- Range 0 to 100 km(224 mph)/hr, Accuracy +/-3m/s Wind direction: ±3 degrees
- **Wind Direction** :- Range 0 to 360°C, Accuracy +/- 3 %
- **Rainfall Sensor** :- Range 2,438 mm/hr, Accuracy +/- 4%
- **Solar Radiation** :- Spectral Range 0 to 1800w/ m2,Accuracy+/-2%, Sensitivity +/- 5%



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