

AdvanceTech India Pvt. Ltd.

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Automatic Weather Station Data Logger



Automatic Weather Station Successfully Installation By AdvanceTech

- ★ Y.S Parmar Solan (H.P)
- ★ Hau Hisar (H.R)
- ★ Nhpc kullu
- ★ Nit Hamirpur
- ★ Horticulture Research Center Mashobra (H.P)
- ★ Pedecration Industry Dehradun (U.K)
- ★ Nit Kurukshetra (H.R)
- ★ Nit Kurukshetra

Block Diagram Of AWS

Sensors

- Temperature Sensor
- Humidity Sensor
- Wind Speed Sensor
- Wind Direction Sensor
- Raingauge Sensor
- Solar Radiation Sensor
- Barometric Pressure Sensor
- Module Temperature Sensor
- Soil Moisture & Temp Sensor

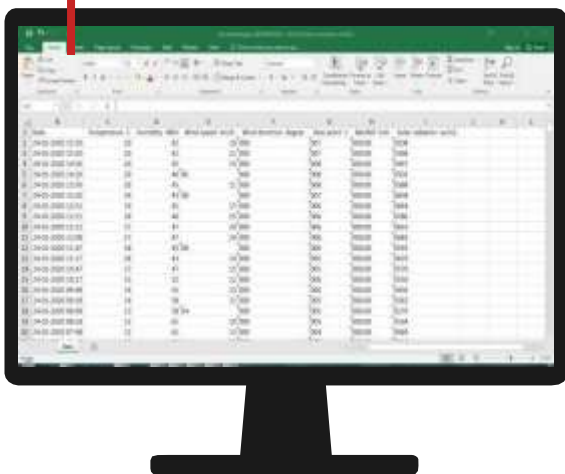
Wifi/GPRS/Ethernet/4-20mA

Data Logger

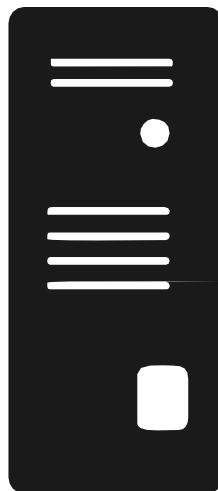


Cloud

Wifi/GPRS/Ethernet/4-20mA



Server



Application

AWS Online Cloud Based

Dashboard

Automatic Weather station ,Chandigarh Centre
Data Logger weather atipl_logger@gmail.com

11 c

TEMPERATURE

81 %RH

HUMIDITY

12 km/h

WIND SPEED

0 degree

WIND DIRECTION

8 c

DEW POINT

0 Inch

RAINFALL

161 w/m²

SOLAR RADIATION

Live data

Temperature Humidity Wind speed Wind direction Dew point Rainfall Solar radiation

LIVE READINGS

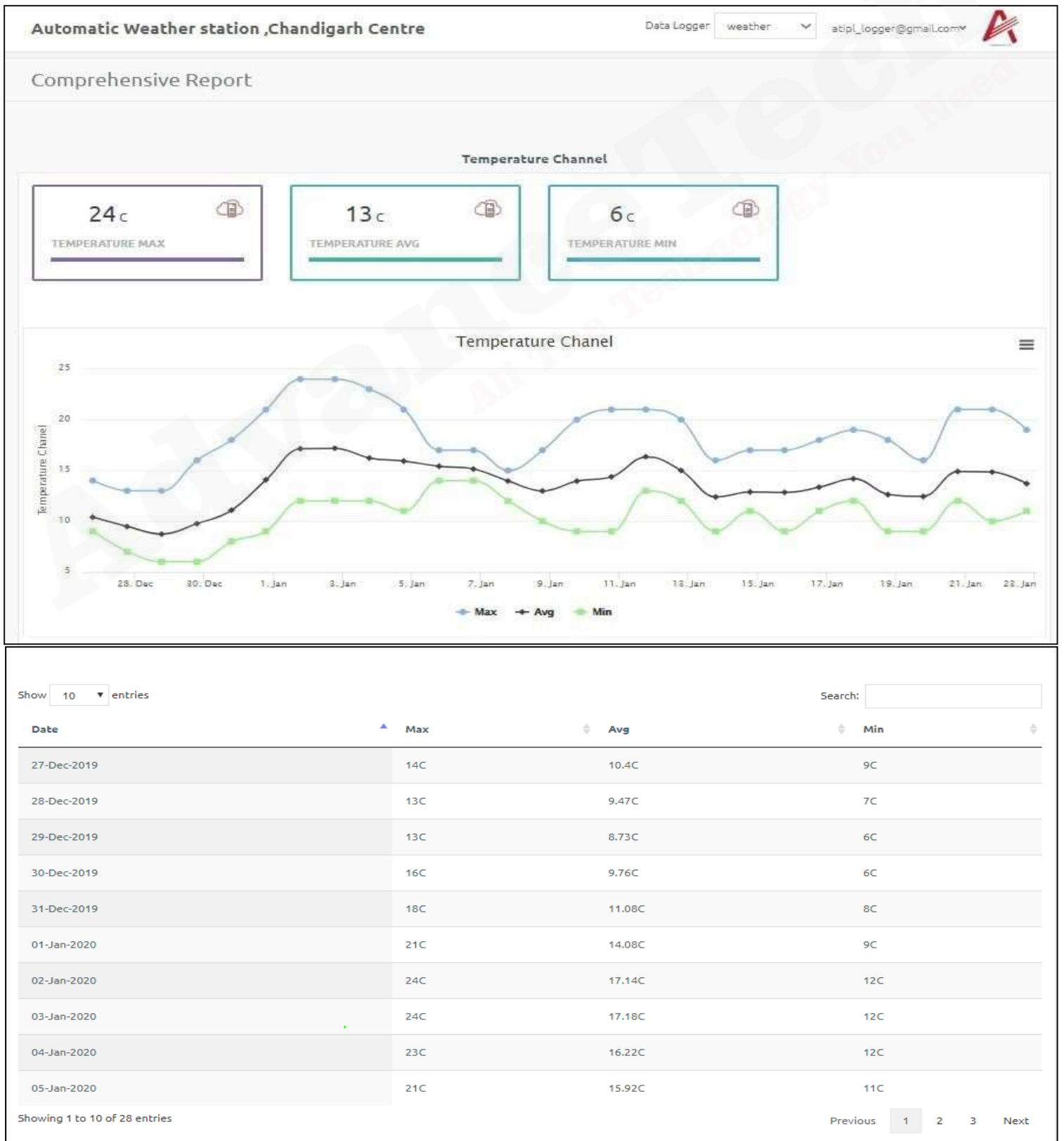
Show 10 entries Search:

#	Date	Temperature	Humidity	Wind speed	Wind direction	Dew point	Rainfall	Solar radiation
1	25-01-20 11:17	11C	81%RH	12km/h	000degree	008C	000.00Inch	0161w/m ²
2	25-01-20 10:47	10C	78%RH	15km/h	000degree	006C	000.00Inch	0074w/m ²
3	25-01-20 10:17	11C	76%RH	15km/h	000degree	007C	000.00Inch	0106w/m ²
4	25-01-20 09:47	11C	76%RH	10km/h	000degree	007C	000.00Inch	0127w/m ²
5	25-01-20 09:17	11C	78%RH	14km/h	000degree	007C	000.00Inch	0224w/m ²
6	25-01-20 08:47	10C	78%RH	04km/h	000degree	006C	000.00Inch	0106w/m ²
7	25-01-20 08:17	10C	78%RH	10km/h	000degree	006C	000.00Inch	0011w/m ²
8	25-01-20 07:47	10C	78%RH	01km/h	000degree	006C	000.00Inch	0002w/m ²
9	25-01-20 07:17	10C	78%RH	00km/h	000degree	006C	000.00Inch	0000w/m ²
10	25-01-20 06:47	09C	77%RH	00km/h	000degree	006C	000.00Inch	0000w/m ²

Showing 1 to 10 of 1,512 entries Previous 1 2 3 4 5 ... 152 Next

Daywise Max/ Min/ Avg Report

Report



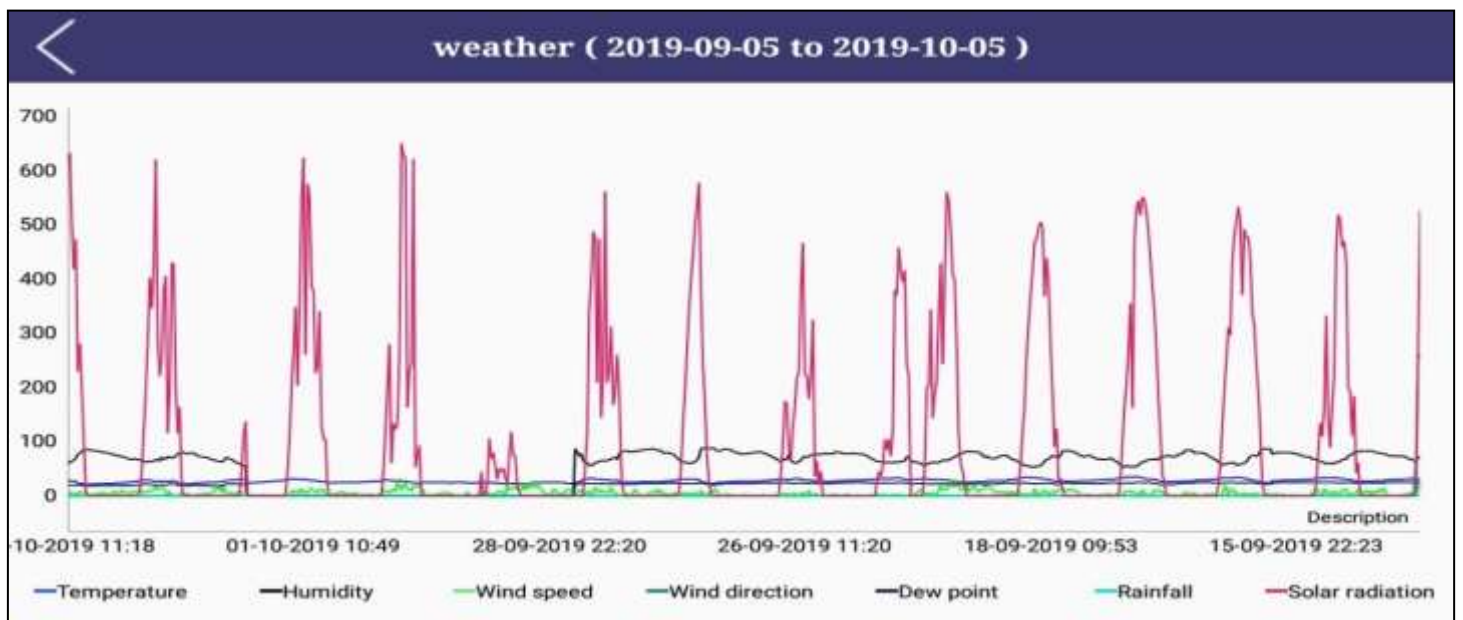
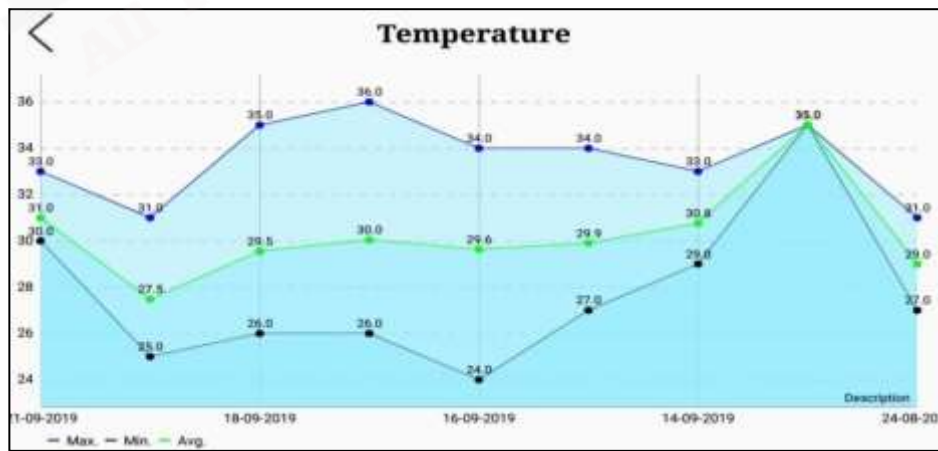
Mobile Application View

Mobile

The screenshot shows the ATIPL mobile application interface. At the top, it displays the location 'ATIPL' and a 'weather' dropdown menu. Below this, the current date and time are shown as 'Date: 05-10-2019 Time: 11:18'. The main display features five large, dark blue cards with white text and icons, each representing a different weather metric: Temperature (29 C), Humidity (58 %RH), Wind speed (04 km/h), and Wind direction (000 degree). The interface is clean and user-friendly, with a hamburger menu icon in the top left corner.

The 'Report' screen in the mobile application displays a table of weather data for a specific period. The table has columns for Date, Temperature, Humidity, Wind speed, Wind direction, Dew point, Rainfall, and Solar radiation. The data is presented in a clear, tabular format with alternating row colors for readability.

Date	Temperature	Humidity	Wind speed	Wind direction	Dew point	Rainfall	Solar radiation
21-09-2019 20:54	30 C	64 %RH	02 km/h	000 degree	023 C	000.00 Inch	0000 w/m2
21-09-2019 20:24	30 C	63 %RH	00 km/h	000 degree	022 C	000.00 Inch	0000 w/m2
21-09-2019 19:54	30 C	62 %RH	03 km/h	000 degree	023 C	000.00 Inch	0000 w/m2
21-09-2019 19:24	31 C	63 %RH	05 km/h	000 degree	023 C	000.00 Inch	0000 w/m2
21-09-2019 18:54	31 C	61 %RH	08 km/h	000 degree	023 C	000.00 Inch	0000 w/m2
21-09-2019 18:24	31 C	60 %RH	12 km/h	000 degree	023 C	000.00 Inch	0000 w/m2





Introduction

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

Data Logger Features

- **8 Channel.**
- **Analog / digital /4-20 mA / 0-5V input ports.**
- **Rs232/Rs485/Modbus communication port .**
- **Low power, ideal for remote siting**
- **Full instructions & Manufacturer's support**
- **LCD display for onsite reading**
- **Logging option con_lguration by minutely, hourly, Daily**
- **Optional - GUI software for display**
- **Extensive 8 Mb on-board _ash memory (Non-volatile) Around 1,000,000 Sets**
- **Hex keyboard to set the various parameters, to con_lgure the channel**
- **Lock key facility**
- **Battery indicator**
- **Reset switch facility**
- **GSM/GPRS Facility available (Remote Communication)**
- **SD card storage facility available (Local Communication)**
- **4 meter Tilttable pole**
- **Mains or solar powering**
- **Size table top Enclosure: Hand Held / Wall mountable / Weather proof (IP65)**

Optional

- **Wired Interfacing Method**
 1. Modbus
 2. Ethernet
- **Wireless Interfacing Method**
 1. GSM/GPRS
 2. WIFI



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Sensor Specification

Relative Humidity

- **Measurement Range** 0 to 100% RH
- **Accuracy** $\pm 2\%$ RH
- **Output** 0 – 5v
- **Response** <15 sec with outfilter

Temperature

- **Measurement Range** 0 to 80 °C
- **Accuracy:** ± 0.5 °C
- **Output** 0 – 5v
- **Response** <15 sec with outfilter

Solar Radiation Sensor

- **Resolution and Units** 1 W/m²,
- **Range** 0 to 1800 W/m²,
- **Accuracy** $\pm 5\%$ of full scale.

Tipping Bucket Rain Gauge

- **Housing:** High Impact Polypropylene, UV Inhibited
- **Transducer:** Tipping Bucket of specially formulated plastic for low surface tension
- **Switch:** Dry reed switch
- **Output:** Less than 0.1 sec. switch closure
- **Capacity:** 6 to 24 VDC @ 500ma
- **Resolutions Available:** 0.01 inches
- **Accuracy:** 2% at 1.5" perhour



Sensor Specification

Wind Direction

- **Range** 0 to 360°
- **Display Resolution** 16 points (22.5°) on compass rose, 1° in numeric display
- **Accuracy** ±3°

Wind Speed

- **Resolution and Units** Measured in 1 mph. Other units are converted from mph and rounded to nearest 1 km/h, 0.1 m/s, or 1 knot
- **Range** 1 to 200 mph, 1 to 173 knots, 0.5 to 89 m/s, 1 to 120 km/h
- **Accuracy** ±2 mph (2 kts, 3 km/h, 1 m/s) or ±5%, whichever is greater
- **Maximum Cable Length** 240' (73 m). Maximum wind speed reading decreases as length of cable from Anemometer to ISS increases. At 140' (42 m), maximum speed is 135 mph (60 m/s). At 240', the maximum is 100 mph



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