Automatic & Intelligent Weather Monitoring System

Nvis 6010

Nvis Automatic & Intelligent Weather Monitoring System incorporates one of the latest IoT applications in real-time weather monitoring. It provides users to have real-time access of weather data from different locations in areas covered by mobile network.

Weather information like temperature, humidity, wind speed and direction, rain fall, UV index and solar radiation is gathered simultaneously from Nvis Weather monitoring system. All the data can be centralized, organized and sent to the observatory through GSM network. **Nvis 6010** provides extensive compatibility of Sensors with built-in GSM mobile network connectivity. Through cloud management software, the data from weather stations is displayed in the form of dashboard & charts. Since the data transmission is instantaneous, alert is triggered in cloud management software once abnormal weather data is received. The observatory can issue warning signal to the public immediately after poor weather condition is recognized.

Overall **Nvis 6010** is a very versatile system, allowing users to examine data that is essential to their operations.

Automatic & Intelligent Weather Monitoring System

Nvis 6010

Applications:

- Agriculture
- Conservation Engineering
- Environmental Education
- Weather Services
- Fire Station
- Alternative Energy
- Meteorology
- Solar Power Project
- Wastewater Treatment
- Construction
- Data Centers
- Water Management
- Disaster Mitigation

Features

High Accuracy & Reliability

Communication over GSM

Battery Charging from Solar Panel

Real time Data Access on Web

Low Maintenance

Data Storage Memory

Technical Specifications

Sensors Specifications :

Air Temperature

Operating Range	:	0°C to100°C
Resolution	:	1°C

Relative Humidity

Operating Range	:	5% to 95%RH
Resolution	:	1%

Solar Radiation sensor

Output	:	0-2VDC
Range	:	0 to 2000W/m2
Spectral Response	:	400 to 1100 nm

Atmospheric Pressure Sensor

Detection Range	:	15- 115kPa
Response time	:	5 Sec.

Air Quality Sensor (PM2.5)

Detection Range	:	10 - 500 ppm
Response time	:	5 Sec.

Wind Speed Sensor

Speed	:	0 to 20m/S
Resolution	:	1m/S

Wind Direction Sensor	:	North, East, West, South, North-East, East-South, North-West, South-West
Rainfall	:	Tipping bucket in mm

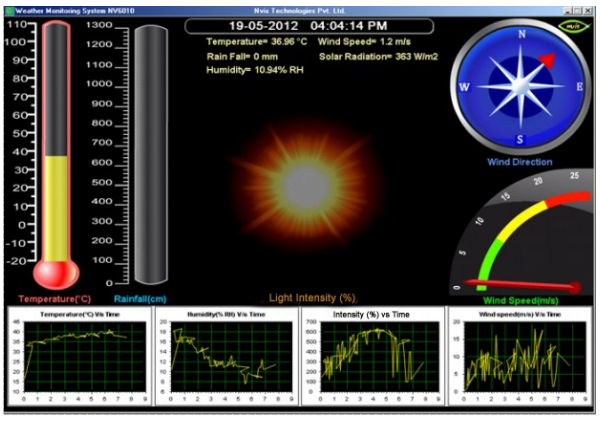
UV Index Sensor

Response wavelength	:	200nm-370nm
Response time	:	5 seconds

Power Supply

Battery	:	12V/40AH
Solar Panel	:	75W
Wireless Transmission	:	GSM Based
Cloud Services	:	1 Year

Software window



Application software for Dashboard for remote monitoring and analysis.

Note: SIM card should be owned by customer.
Customer has to renew cloud services after 1 year.

Subject to change - Version 2.0

Designed & Manufactured in India by

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