



Tesca Automatic & Intelligent Weather Monitoring System incorporates one of the latest IoT applications in real-time weather monitoring. It provides users to have realtime 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 Tesca Weather monitoring system. All the data can be centralized, organized and sent to the observatory through GSM network. 52072EA 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 52072EA is a very versatile system, allowing users to examine data that is essential to their operations.

Applications:

01. Agriculture
02. Alternative Energy
03. Construction
04. Conservation Engineering
05. Meteorology
06. Data Centers
07. Environmental Education
08. Solar Power Project
09. Water Management
10. Weather Services
11. Wastewater Treatment
12. Disaster Mitigation
13. Fire Station

Features



High Accuracy
& Reliability



Communication
over GSM



Battery Charging
from Solar Panel



Real time Data
Access on Web



Low
Maintenance



Data Storage
Memory

Note: Specifications are subject to change.

Technical Specifications

Sensors Specifications :

Air Temperature

Operating Range : 0°C to 100°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

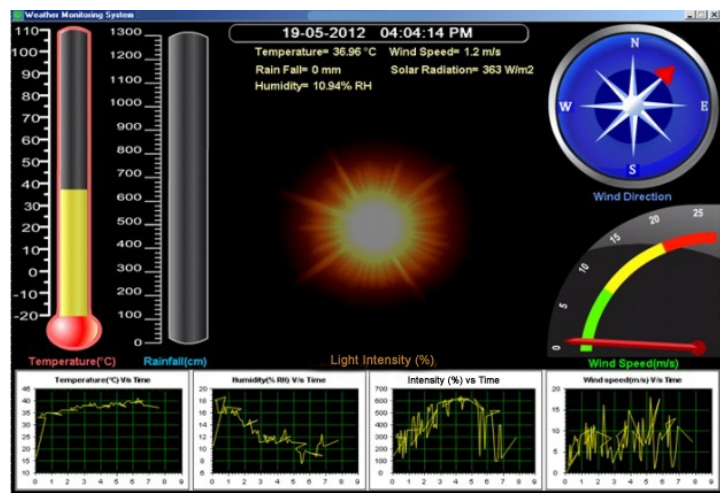
UV Index Sensor

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.

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