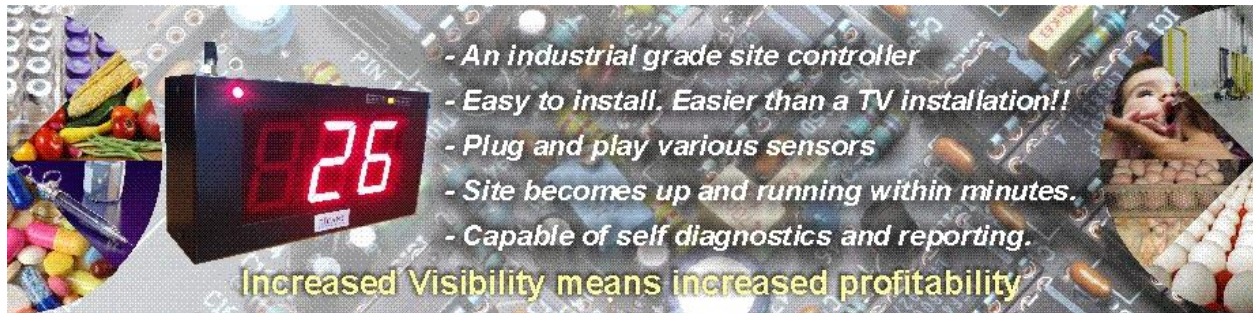




## Environment Monitor

Cellular, GSM, Wi-Fi, Ethernet.



Environment monitor is a high-performance solution that monitors 24/7, in real time, the ambient temperature, humidity, atmospheric pressure and various types of gases (like CO<sub>2</sub>, CO, Ethylene etc.) in cold rooms, ripening chambers, refrigerators, freezers, labs, blood banks, server rooms or any other locations.

It alerts the field staff via email and SMS when any of the parameters rises or falls outside the acceptable range. This real time alerts are sent first to the field staff and if the problem is not resolved within the pre-defined time; it sends the alerts to the escalation level specified, thus making the solution fool proof and pro-active.

The solution has been designed keeping in mind following key points:

### **1. High accuracy**

The sensors are manufactured in state of the art facilities and come with high degree of accuracy and repeatability.

### **2. High availability**

The product is equipped with features like battery backup, self-diagnostics, reporting, and watchdog to self-correct, if in case, anything goes wrong.

### **3. Easy to install and maintain**

The Site controller is so designed that it automatically detects various sensors plugged in to it and connects to our server automatically without any human intervention. Thus it is a simple plug and play solution and can be installed and maintained easily.

**4. User friendly**

There is no learning curve to start using this solution. This solution makes use of easy to use SMS and email technologies to interface with the users.

**5. No IT infrastructure or knowledge required by the users**

This is a web-based solution where application and all the data is maintained on a highly secure server manned 24/7 by highly qualified engineers of Ataa Solutions. There is absolutely no need to maintain any computers at the site.

**6. Device independent dashboard**

Customer can use a smart phone, iPad or desktop computer to log into the web site to view the dashboard and configure the solution.

**7. Network independent interface**

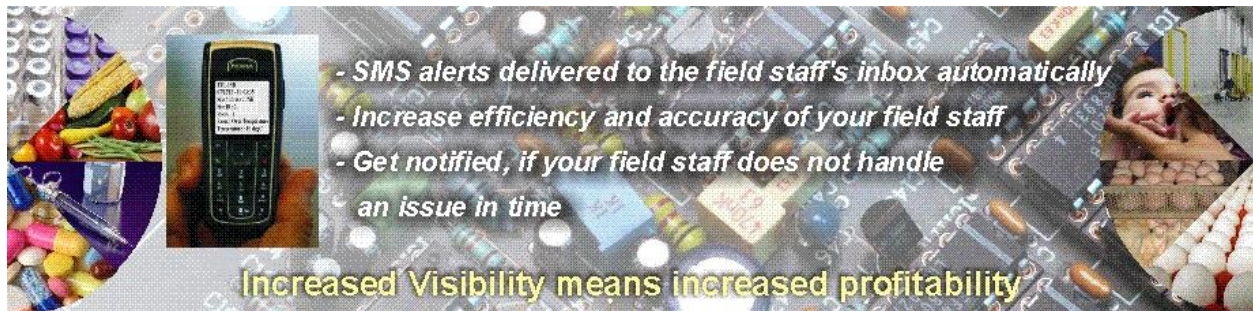
All available network interface options like Cellular, Wi-Fi and Ethernet interfaces are supported on the site controller. This allows the user to interface the site controller through any available mode of connection to the Internet.

**8. Analytics**

The data collected and stored on our server can be accessed at any time to do various types of analytics, which can help in finding the root cause for any yield issue or to identify various ways in which the operational efficiency can be improved.

**9. Reports**

The solution can send pre-selected reports at the defined periodicity via selected mode like Email or SMS.



The above feature makes this solution pro-active, rather than many other solutions that are passive and require 24/7 human presence for it to work.

## Key Features :

1. High accuracy
2. High availability
3. Easy to install and maintain
4. User friendly
5. No IT infrastructure or knowledge required by the users
6. Device independent dashboard
7. Network independent interface
8. Analytics



*- Graphical reports to save your time and effort*  
*- Automatic delivery of reports into your mail box*  
*- Various report options to chose from*

**Increased Visibility means increased profitability**

## Components of the solution

### 1. Various sensors

Like Temperature, Humidity, pressure, door, Gas etc. Highly accurate and reliable sensors are used, which convert the environment parameters into accurate digital data.

### 2. Site controller

This is a 24/7 monitoring system, which manages all the sensors, collects various sensor data and checks to see if it is within the acceptable range. If the temperature is outside the acceptable range the system sends alerts via a text message to predetermined Mobile Numbers. It also sends alerts when the parameter returns to normal.



Site Controller

### 3. Dashboard website

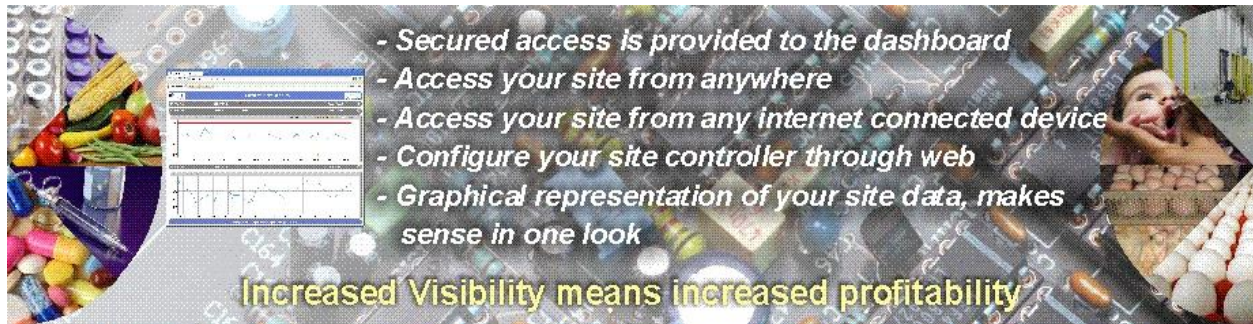
The current parameters, and the daily, weekly or monthly history of all the parameters can be viewed on the password protected dashboard website [www.envmon.in](http://www.envmon.in). All the data is stored on secure servers so that it can be accessed 24/7.

#### 4. Mobile phone

The mobile Numbers of the Field staff' and escalation staff' have to be entered via the dashboard so that they can receive the SMS alerts. Customer can use a smart phone, iPad or desktop computer to log into the web site to view the dashboard and configure the solution. The data collected and stored on our server can be accessed at any time to do various types of analytics, which can help in finding the root cause for any yield issue or to identify various ways in which the operational efficiency can be improved. The solution can send pre-selected reports at the defined periodicity via selected mode like Email or SMS the current parameters and the daily, weekly or monthly history of all the parameters can be viewed on the password protected dashboard website [www.ataa-solutions.com](http://www.ataa-solutions.com).

All available network interface options like Cellular, Wi-Fi and Ethernet interfaces are supported on the site controller. This allows the user to interface the site controller through any available mode of connection to the Internet. The data collected and stored on our server can be accessed at any time to do various types of analytics, which can help in finding the root cause for any yield issue or to identify various ways in which the operational efficiency can be improved.

#### Reasons to buy Environment monitor



#### Features / Benefits / Application:

- Easy to use.
- Proactive system - Proactive system, which alerts the user via SMS and email, instead of manual monitoring, thus increasing the efficiency and reducing the errors by the field staff
- GPRS Data Transmission and SMS message
- Supports various types of sensors through MODBUS RS485 interface, up to 32 various sensors can be connected in each port
- Highly accurate real time environmental parameter measurement and logging.
- Monitor and manage environmental conditions over GSM/GPRS.

- The Site controller is so designed that it automatically detects various sensors plugged in to it and connects to our server automatically without any human intervention
- Easy to install and maintain.
- Real time data logging for future analytics and record keeping. Internal memory stores 50,000 logs.
- Accurate measurement and logging.
- User-programmable alarm thresholds
- No Complex IT set up or maintenance required.
- Built in Battery backup, in case of power failure.
- Door open time is recorded and an alert is generated in case the door not being closed within allowed time limit.
- Time permissible for the door of the cold room/any chamber to remain open
- Built in Battery backup, in case of power failure the site controller continues to function.
- MOD BUS RS485 based Magnetic switch sensor can be interfaced to the Site controller for chambers door sensing and Door open time is recorded and an alert is generated in case the door not being closed within allowed time limit, thus ensuring less electricity wastage and better operational control.
- Periodic automatic reports sent directly via Email or SMS.
- Self-diagnostics, reporting, and watchdog to self-correct, if in case, anything goes wrong
- No complex site configuration required, just plug and use.
- ***Use in Cold Rooms, Ripening Chambers, Refrigerators, Freezers, Labs, Blood Banks, Server Rooms Or Any Other Locations.***

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