



**Samtec**  
**سامتك**

Intelligent industrial  
**greenhouse  
automation**

Professional in the field of automation  
and smartization of the agriculture and  
Poultry industry  
Since 2007

MEHR SAMAN GOSTAR



## Smart Automation

An intelligent automation system allows you to have proper management with maximum efficiency in your greenhouse. **Mehr Saman Gostar Smart Automation** is designed and implemented based on cultivation standards and creation of Uniform environmental conditions and without oscillation, it means that with precise control of all greenhouse equipment in a completely automatic and intelligent way, with the least energy, the highest production and quality of the product may be achieved.



## Samtec Smart Software

- the exclusive design of smart software, suitable and specific to the greenhouse with easy use.
- Controlling greenhouse and its equipment in a completely intelligent manner with the highest access level.
- Complete smartization in detail, decision making, and execution based on fuzzy logic and PID.
- Registering previous information and statistics to analyze and survey the operation of equipment and personnel.
- Ability to access within the complex and remotely from anywhere in the world.
- Using IOT technology, Internet of things, providing the ability to monitor instantaneously concerning the status of the greenhouse, accessibility and controlling each of the equipment of the greenhouse hall to owners and experts approved by it anytime and from any place.



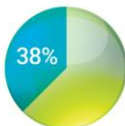
## Samtec intelligent automation function

- Carrying out precise adjustment and uniformity of temperature, humidity, light, and other environmental parameters, based on cultivation standards and creating and preparing uniform environmental conditions.
- Relieving environmental stress and maintaining the plant immune system.
- Eliminating human and labor errors.
- Breakdown prevention and optimal use of equipment performance.
- Ability to access and remotely monitor and control the management of the greenhouse hall from anywhere in the world.
- Record all statistics and information of the greenhouse hall during breeding and access them from any place.

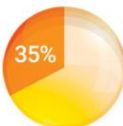
## Equipment under control of smart automation

- Controlling nebulizer system
- Controlling roof vents
- Controlling exhaust fan
- Controlling lightening system
- Controlling Irrigation and nutrition system fully
- Controlling cooling system
- Controlling shade screen
- Controlling circulation fans
- Controlling heating system
- Roll up, roof sprinkler, generator, refrigerating room, and other requested items without any limitations.

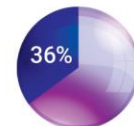
Increase Productivity **25%**



Reduction of the fuel consumption



Reduction of the diseases



Enhancement of the product quality



Increase harvest product



## Sensors

**Temperature Sensor:** ● Indoor and outdoor air temperature ● Leaf temperature ● Temperature below the ceiling  
● Water temperature ● Culture substrate temperature ● Refrigerating room temperature

**Humidity Sensor:** ● Controlling humidity through indoor and outdoor air ● Controlling humidity below the ceiling  
● Soil moisture and Culture substrate

**Nutrition System:** Measurement of the PH, EC, temperature, and water pressure for a nutrition system



## Samtec Weather Station

- Measuring wind intensity
- Measuring rainfall
- Measuring wind direction
- Measuring temperature-humidity
- Using a luxury sensor & UV outdoor space light
- Air pressure measurement



## Samtec Automation Software

Hardware used in Samtec smart automation set with fully durable industrial and safety standards (more than 15-year) and only the production of this company which belonged to 10 years ago, showing this event, that all of them are still working without any failure, some of the used software specification in Samtec smart automation are as follows:

- Control system using PLC
- Multilanguage industrial touch screen
- Hardware protection modules
- Communication and remote access modules
- Industrial sensors with high accuracy and longevity



## Why Samtec

- Exclusive designing and planning for each farm
- Providing round-the-clock support seven days a week
- 15-year parts warranty
- Provision of support and golden service of the company for 10 years
- Member in an agriculture automation system for obtaining facilities
- Manufacturer approved by the Engineering Council Organization





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