



Samtec
سامتک

Intelligent industrial
**poultry farm
automation**

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

About Samtec



Mehr Saman Gostar Knowledge Enterprise (Samtec) has been established with more than 15-years of previous experience in the field of designing and manufacturing industrial smart automation in 2007. This company has taken effective steps to advance technology in order to promote and ensure the welfare of the owners of the poultry industry, greenhouse, other agricultural and livestock sections. Samtec industrial group has so far succeeded in equipping and smartening more than 800 manufacturing halls including greenhouse (Any types of cultivation) poultry (Any types of poultry), mushroom cultivation farms, and livestock and poultry feed factories.

Samtec Smart Software

All used software in smart automation systems is produced by Samtec Industrial Group and its updating is carried out continuously or upon request of the purchaser.

● Control Software

Control the ecosystem and all electrical equipment without any restriction.

● Remote Monitoring and Communication Software

Using the IOT Technology provides the possibility of monitoring and controlling all the equipment of the poultry hall.

● Analysis Software (Black box)

This system records all events inside the poultry hall and makes it possible to revision them.

● Comprehensive poultry chain information system software

After implementation of automation system in poultry breeding halls may set them in a separate network and obtain extensive data and information by mingling information related to each of them.

✓ User-friendly software

All Samate software programs are designed with multilingual and user-friendly capabilities, according to the characteristics, location and needs of each hall.



SMART Automation

The smart automation system prepares you to manage properly along with maximum return in the poultry house.

Samtec smart automation has been designed and manufactured based on poultry breeding standards and creating uniform environmental conditions and without oscillation.

In other words, with precise control of all poultry hall equipment is a fully smart and automatic way with the least energy consumption the highest production and quality product may be achieved and also, viewing the hall information remotely online has helped a lot in controlling the hall and review and statistical monitoring and recorded information will be the light of management way in the conditions ahead.

Equipment under Control of Smart Automation

- ControlliControlling poultry farming hall ventilation system
- Controlling poultry farming hall air pressure system
- Controlling heating and cooling system
- Controlling poultry farming hall humidity system
- Controlling lighting system
- Controlling grain feeding system
- Controlling water consumption system
- Controlling chicken weights system
- Controlling poultry cage system
- Safety system
- Smart warning system
- Registering hall Cardex information
- Monitoring

Automation efficiency

Average weight gain up to	15 Gr.	Reduction of human error related to climate control	100%	Reduction of drug consumption	70%
Improvement of conversion ratio	0.2	Reduce electricity and fossil fuel consumption	50%	Reduction of carcass waste	3%
Reduction of losses	5%	Reduction of handling and transportation to poultry farming	60%	Reduction of equipment breakdown	60%

The Distinguishing Feature of Samtek Smart Automation

- Technical knowledge and experience of the company in poultry industrial automation engineering by considering bird psychology and strengthening the chicken immune system to achieve ideal breeding and optimal conversion ratio.
- Designing application software and object-oriented technology in accordance with the location of the hall equipment to facilitate work with any level of literacy.
- Exclusive design for any type of poultry industry (broiler, laying hen, laying, litter and cage).
- Inventing a new method in using fuzzy logic technology and PID in controlling and temperature and ventilation uniformity in the poultry breeding hall.
- Unique ventilation algorithm based on the live chicken weight in a completely dynamic way and supply of Oxygen required by the bird .
- Two-dimensional ventilation for substrate and three-dimensional ventilation for cage poultry breeding hall.
- Inventing volumetric and speed ventilation to reduce the temperature difference between the beginning and end of the hall.
- Innovation a smart control system in controlling the heating and cooling system.
- Advanced software features including monitoring, security guard, information analysis registered period.

Electric winch

A winch motor is a device that executes the command to open and close the inlet gate. Some feature Samtek electric winch includes:

- High precision opening and closing Inlet valves and aerators.
- Ability to move 500 N/m load in two directions.
- Easy repair and maintenance.



Electrical switchboard

Combining industrial electrical switchboards with an intelligent control system with the aim:

- Reducing installation, maintenance, and support costs
- Existence of integrated protection circuit for all equipment
- Reducing the risks of human error



Samtek Smart Heater Controller

- Controlling heater temperature with Pid Controller
- Heater fan control with inverter
- Reducing fuel consumption by 50% due to the optimal use of the fan
- Correction of the temperature gradient and prevention from temperature shock



Samtek Automation Hardware

The hardware used has completely industrial and safety standards with a long life (more than 15 years) some used software in Samtek 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 Samtek

- Lifetime software guarantee
- Exclusive designing and planning for each poultry house
- Easy usage with any level of literacy
- 15-month hardware parts guarantee
- Provision of support and golden service of the company for 15 years
- Member in Agriculture Jihad mechanization system for obtaining facilities
- Using knowledge-based facilities





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