



# FARM AUTOMATION

# THOMAS MANAGEMENT CLIMATE COMPUTER

**“A pleasant climate means better animal welfare and healthier pigs”**

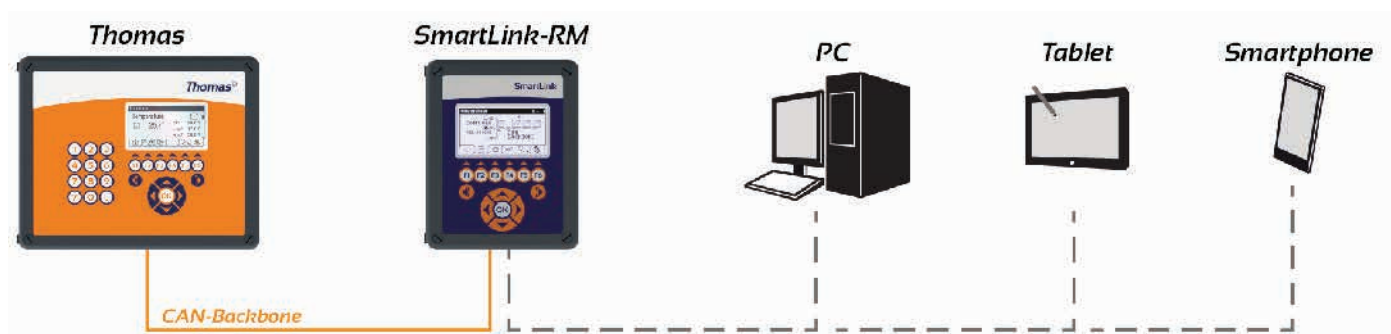
In modern pig farming, it is important to optimize the climate conditions in order to improve production. Porktec offers “Thomas”, the friendly user pig farming computer that control the climate centrally or per compartment.



All elements that generally affects the climate of a farm can be controlled like ventilation, heating, cooling and lighting among other things. Thomas climate computer controls up to twelve rooms. It ensures optimum results by managing animal living environment.

Pigs of different ages have different requirements. For this reason, Thomas computer is equipped with a curved function that allows to calculate minimum and maximum ventilation and optimum temperature humidity according to the age, weights and growth performance of pigs.

The computer can be controlled remotely with smartphone or tablet with the ThomApp which gives full control over all processes anywhere and anytime.

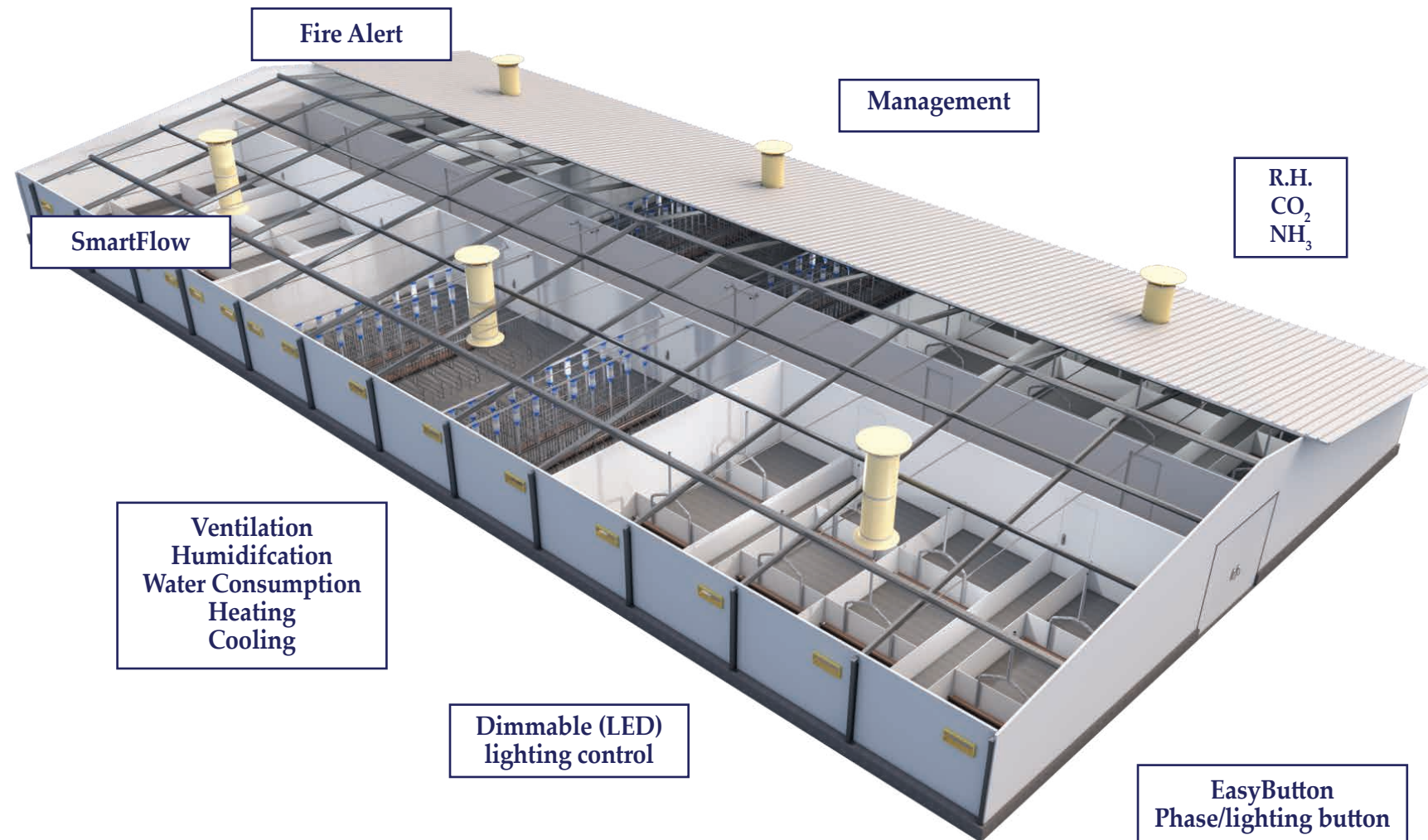


## FUNCTIONS CONTROLLED PER ROOM

### Ventilation

Our ventilation system maintains climate conditions, resulting in optimum growth and healthy pigs.

Temperature, relative humidity and negative pressure sensors guarantee balanced ventilation, heating and cooling systems. It is important to have the right flow of air without any draught for pigs.



Every type of ventilation can be controlled:

- 🌀 Natural to mechanical
- 🌀 Ceiling to duct
- 🌀 Combined

### Cooling

Thomas climate computer is also provided with an ON/OFF contact to enable cooling when the temperature is above the comfort zone which is crucial for pigs.

### Humidification

Linked to an RH level, the humidifier can be regulated by an on/off contact.

### Dimmable lighting control

Two possible control ways: 1st by means of on/off control and the 2nd by means of the amount of light hours per day

### Fire alert

The fire alert system works by monitoring a number of configurable temperature sensors. If a temperature rises of more than 5 °C within 1 minute is detected or if the sensor detects a temperature above 58 °C, a fire alert will be issued.

### Easy button

This button allows to select the different phases, and then Thomas computer arranges that the previously-defined ventilation program is activated for each phase. These phases could be move out, soaking, cleaning, drying, warming up and production.



# THOMAS MANAGEMENT FEEDING COMPUTER

Thomas feed enables the farmer to control dry feed system. It is suitable for implementation of feed strategy for healthier animals and better results.

## Thomas feed supports:

- Maximum four silo augers
- Maximum five feed circuits
- Silo weighing
- Phase feeding through (optional):
  - Feed slides (maximum five positions)
  - A valve per mixture (maximum nine mixtures)
  - A valve per room (maximum 32 rooms)
- The supply of water
- The registration of the feed and water consumption
- The operation of dosers
- Timers (maximum four)



Thomas feed can control up to 4 silos at the same time and with 2 frequency controllers, the feed coming from 2 different silos are mixed.

The barn computers can be operated remotely via smartphone or tablet through the ThomApp. In addition, the data in the farmer's computer can be displayed graphically allowing to see the farm performance, quickly recognize undesired fluctuations for better prevention in the future.