



**Technology and
Automation
Solutions for
Animal Breeding
Farms**



inoBram[®]
a Munters company

CONTROLLERS



A complete, innovative, high-tech ambience controller, it integrates actuation controls with incredible versatility, providing greater comfort, precision and agility to the user.

A robust equipment with user-friendly interface and highly reliable system, the **SMAAI 5** ensures cost reduction in the assembly of electrical panels.

MAIN FEATURES:

- > Positive and negative pressure – transition pressure.
- > Integrated control switches.
- > Alarm and alert system.
- > Updating and remote communication system.
- > Curve and peripheral configuration functions.
- > Protection system for probes and peripherals.
- > Data management.
- > Controls and monitoring.
- > Connection with sensors.
- > Information registration.
- > Ambience reports.



Version prepared to operate at 24 VDC or 24 VAC.



Version prepared to engage variable electronic exhausts.



Controller with high technology and incredible performance. It has various innovative functions. Quality, practicality and security.



It has all SMAAI 4 functions. And more:

- > Water consumption measurement and records.
- > Ventilation control by CO2 level.
- > Controls up to 2 side curtain machines.
- > Positive or negative pressure control.



It has all SMAAI 4 functions. And more:

- > Water consumption measurement and records.
- > Ventilation control by CO2 level.
- > Detailed logs and reports.
- > Transition Pressure – Third Pressure



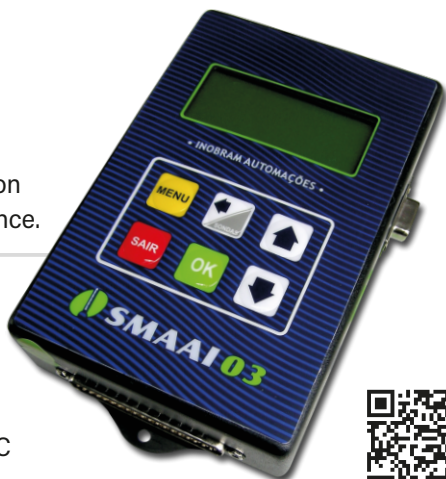
SMAAI 03

Control and monitoring.

Easy installation and maintenance.

It has the following versions:

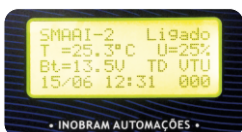
- > SMAAI 03
- > SMAAI 03 CC
- > SMAAI 03 PE



SMAAI 02

Temperature and relative humidity control and monitoring.

Easy installation and maintenance.



SMAAI 01

Temperature and relative humidity control.

Easy installation and maintenance.

It has the following versions:

- > SMAAI 01
- > SMAAI 01 S



SMAAI 01s COM SENSOR DE VENTO



The **SMAAI 01S** is indispensable for taking advantage of natural ventilation within the barn, ensuring better air quality, animal welfare and increased productivity.

MAIN FEATURES:

- > Curtain configuration, monitoring and opening and closing control based on temperature or wind sensor.
- > Minimal ventilation configuration, monitoring and control.
- > High and low temperature alarms.
- > Power outage alarm.
- > Data programming according to the farmer's needs
- > Easy installation, handling and maintenance.



VE PROBE



ambiente



Ambiente V3 is a controller prepared to assist farmers in controlling and monitoring climate control of pig and dairy farms.

An innovative controller developed with high technology, **Ambiente V3** provides improvements in management and animal welfare, resulting in productivity gains and quality of life for farmers.

It allows greater flexibility of use and expansion according to the evolution of the farm.

Advantages of using Ambiente:

- > Barn monitoring and control.
- > Modular evolution system.
- > Easy installation and operation.
- > It has an interface for receiving set-points via internet.
- > Easy internet connection to management platforms.
- > Reports on data collected in real time
- > Simple and intuitive use.

The Ambiente controller makes it possible to control:

- > Temperature and humidity (inside and outside).
- > Water temperature in drinkers..
- > CO2 level measurement.
- > Daily water consumption measurement.
- > Feed consumption measurement.



ASTRO

CONTROLADOR DE AQUECEDOR



Astro InoBram is yet another innovative solution for animal breeding farms.

The Astro - Heater Controller – is a device designed and developed to control the barn heating machine, bringing more modernity to this process on farms.

It acts to ensure the best feed conversion of the lot, reducing energy losses due to animal temperature fluctuations.



MAIN FEATURES

- > Monitors machine temperature;
- > Monitors the farm's reference temperature;
- > Smart burning cycle (burning cycle defined by the current state of the machine);
- > Completely autonomous or controller-assisted operation;
- > It has outputs for thermal and functional safety alarms.



PROBES AND SENSORS



Digital probes used for barn sensing that integrate **InoBram solutions**. They ensure greater precision, control and reliability of information collected on the farm.

T/U Probe



Temperature and relative humidity probe

T-Probe



Temperature probe

U Probe



Relative humidity probe

PE Probe



Static pressure probe

H2O Probe



Water consumption probe

T-H2O Probe



Water temperature probe

K Probe



Probe for animal weighing systems

VE Probe



TECNOLOGIA

TriLED-IN

Three-color LED built into **SMAAI InoBram Probes**. It allows for simplified communication with the user, working as a 'booster' in the set. **TriLED-IN** technology emits light signals, enabling the interpretation of parameters and settings, making it possible to intervene in cases of possible errors.

Co2 Probe



Probe for measuring carbon dioxide

Digital VE Probe



Probe for measuring wind



Probe for detecting wind

LIGHTING

AviLamp

Strong and durable lamps with LED technology. They stand out for excellent lighting efficiency, not generating heat, not harming the environment and preventing wasted light. Its linear dimming curve favors animal welfare.



AviLamp
WY-05

> VOLTAGE	220 VAC
> LIGHT OUTPUT	1.300 Lm
> OUTPUT	10 W
> FREQUENCY	50/60 Hz
> CURRENT	0,045 A
> POWER FACTOR (PF)	0,85
> SERVICE LIFE (L70)	25.000 h
> IRC	> 80
> COLOR TEMPERATURE	4.300 K
> EQUIV. THE INCANDESCENT LAMP	92 W



AviLamp
WY-06

> VOLTAGE	220 VAC
> LIGHT OUTPUT	1.100 Lm
> OUTPUT	10 W
> FREQUENCY	50/60 Hz
> CURRENT	0,045 A
> POWER FACTOR (PF)	0,85
> SERVICE LIFE (L70)	25.000 h
> IRC	> 80
> COLOR TEMPERATURE	2.700 K
> EQUIV. THE INCANDESCENT LAMP	85 W

AviLamp E27-01 INJECTED CONNECTION

- ✓ RESISTS OXIDATION AND BAD WEATHER.
- ✓ STANDARD E-27 CONNECTION.
- ✓ TOTAL SEALING.

Applicable to the whole line of InoBram AviLamp bulbs.



PP CABLE
INDICATED BY TECHNICAL SAFETY STANDARDS.

ORIGINAL PRODUCT
DEMAND THE INOBRAM BRAND.

STURDY MATERIAL
FLEXIBLE PVC INJECTION MOLDING.

MUCH STRONGER AND MORE DURABLE



DIMMER AviLamp V2



With precise lighting control, the new **AviLamp V2 Dimmer** distributes light evenly within the barn, helping the birds to grow evenly.

The **AviLamp V2 Dimmer** makes it possible to adjust light intensity according to the flock's evolution stages, favoring development and resulting in better productivity of the flock.



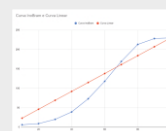
Smart bulb actuation control

Configure according to the needs of your flock.



InoBram Dimming Curve System

Precision in minimum and maximum brightness.



Reporting system on the equipment's display

- OVERVOLTAGE
- OVERCURRENT
- RECONNECTION



WEIGHING SYSTEMS



The **InoBram Weighing Systems** are made up of robust and modern devices that aim to inform the real weight of birds (separately), and silo and feed consumption weighing for barns. It assists farmers with farm management control and provides more efficiency in production.



InoBram | App

The **evolution** in your farm's management.

Now you can keep track of your **SMAAI 5 controller readings** and **farm alarms**, anytime, anywhere.



With the **InoBram | App**, you can:

- > Analyze the data collected from the controller in a simplified way, at any time and from anywhere.
- > Monitor flock ambience, water consumption, bird weight, silo weight and feed consumption.
- > Improve flock performance
- > Receive notifications and device failure alarms, ensuring more safety for your farm.
- > Gain more ability to respond to any technical problems.
- > Analyze graphs of cumulative mortality and daily mortality.
- > Register and manage multiple farms, centers and barns, even from different locations.
- > Remotely configure the **InoBram SMAAI 5** controller.
- > Register user teams for each farm, center or barn.



ELECTRICAL PANELS

InoBram Electrical Panels are developed with high-tech components. They are robust, precise and safe, manufactured in accordance with NR-10 and NR-12 standards, also combining **InoBram's** know-how in the development of innovative solutions for animal breeding farms.

InoBram Electric Panels are an excellent investment and are versatile, reliable and easy to install and operate.

They are customizable and manufactured according to the specifications and needs of each customer. Technology and care that guarantee incredible performance for the farm, safety for operators and more peace of mind for the farmer.

- > **Specific electrical design.**
- > **Group alarm.**
- > **Individual actuations.**
- > **Controls via inverter or not**



RCD SWITCH

RCD switches are products designed to protect against current leakage. They protect people against electric shock and installations against fires.

CONTACTOR

The contactor is an electromechanical device that allows for controlling loads in a power circuit.

MAIN CIRCUIT BREAKER

The main circuit breaker is used to protect electrical installations against overloads and short circuits.

SPD

The Surge Protection Device (SPD) was designed to protect equipment and installations against surges and overvoltage from direct or indirect discharges in the electrical network.

PHASE FAILURE AND SEQUENCE RELAY

The phase failure relay is an electronic device that protects three-phase systems against phase failure and phase sequence reversal.

TIMER RELAY

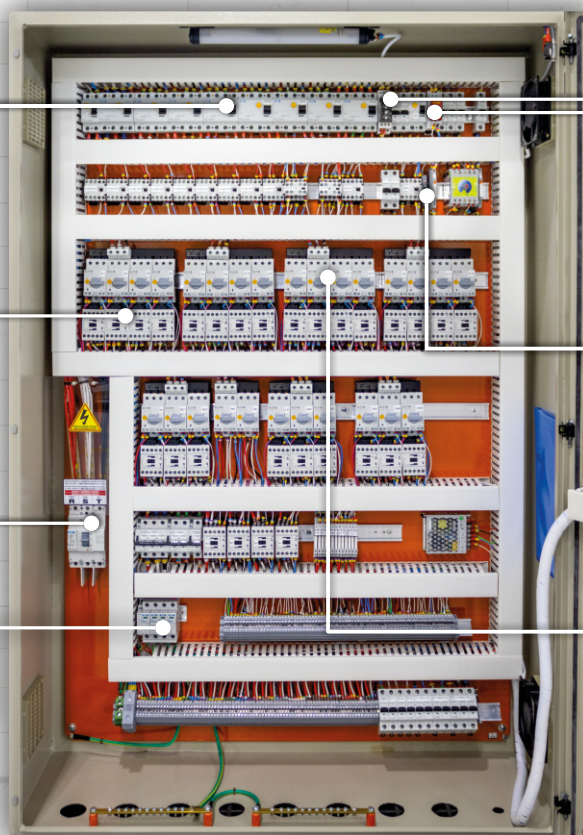
The timer relay is an electronic device that allows for switching an output signal according to its function, at set times.

CONTROL PROTECTION FUSE

The fuse is a protective device against short circuits and overload.

MOTOR CIRCUIT BREAKER

The motor circuit breaker is a device for starting and protecting electric motors, which ensures total protection of the electrical circuit and the motor through its thermal and magnetic trippers.



SMAAI SECURITY SYSTEMS

I-02 Reset Trigger

Resets side curtains in barns or any other ratchet curtain system.

Facilitates installation and offers better security.



CAI-02 Control Panel

Analog temperature control panel that can be installed in parallel to the electrical panel, ensuring additional security for the system. It has two thermostats that can be adjusted independently.



INLET INOBRAM



INLET INOBRAM

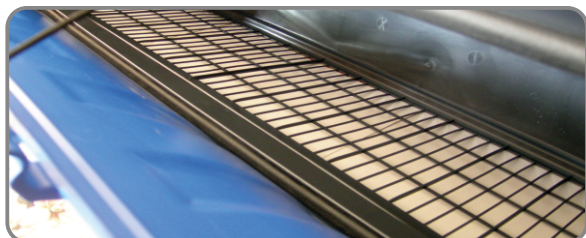
Motorized and fully controlled system for the purpose of providing more precise control of minimal ventilation in animal breeding barns.

It can be controlled with **InoBram** controllers and actuated by the curtain machine or also through the **InoBram Actuator System**.

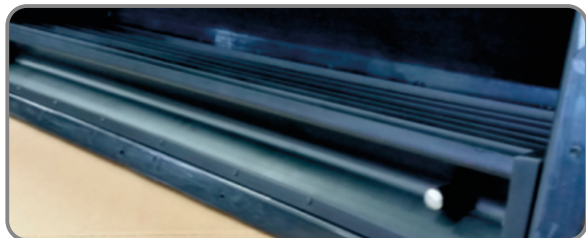
FEATURES:

- > Motorized opening and closing system.
- > Plastic with UVA and UVB protection.
- > Integrated opening management.
- > Total sealing.
- > Back part with integrated protection screen.

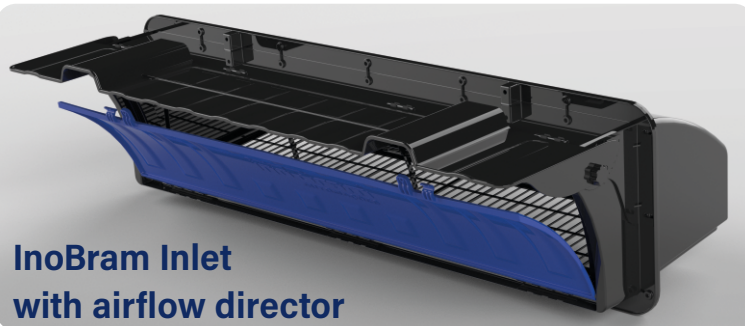
InoBram Inlet | without dimmer



InoBram Inlet | with dimmer



PVC-03 INLET



**InoBram Inlet
with airflow director**

I-02 Reset Control Panel

System for automatic barn curtain resetting by time intervals.

Triggers a siren and alarm for power outage.

It has an internal battery.



SMAAI WD-02

Control panel used to give integrators and farmers more security. It can be used to monitor any ambience controller model.



i-ALLERTA

SMART SECURITY SYSTEM FOR ANIMAL BREEDING FARMS

- > Sensors that work independently from other systems;
- > Emission of audible, visual and cell phone alerts;
- > In the event of failures, i-Allerta operates ventilation in an intelligent way, maintaining the desired temperature curve;
- > Support in case of controller failure, helping to control the temperature inside the barn;
- > Secure, wireless communication between the farm module and the central module;
- > Alarm history storage;
- > Wi-Fi internet connection;
- > Failure detection and warnings about various devices;
- > Compatibility with controllers of the **InoBram Smaai** line.



For a complete solution and total integration between systems, we recommend use of the **InoBram APP**. With it, farmers have access to the notifications emitted by the system and can configure and share notification monitoring with other previously registered users.



New generation of security system for animal breeding farms.

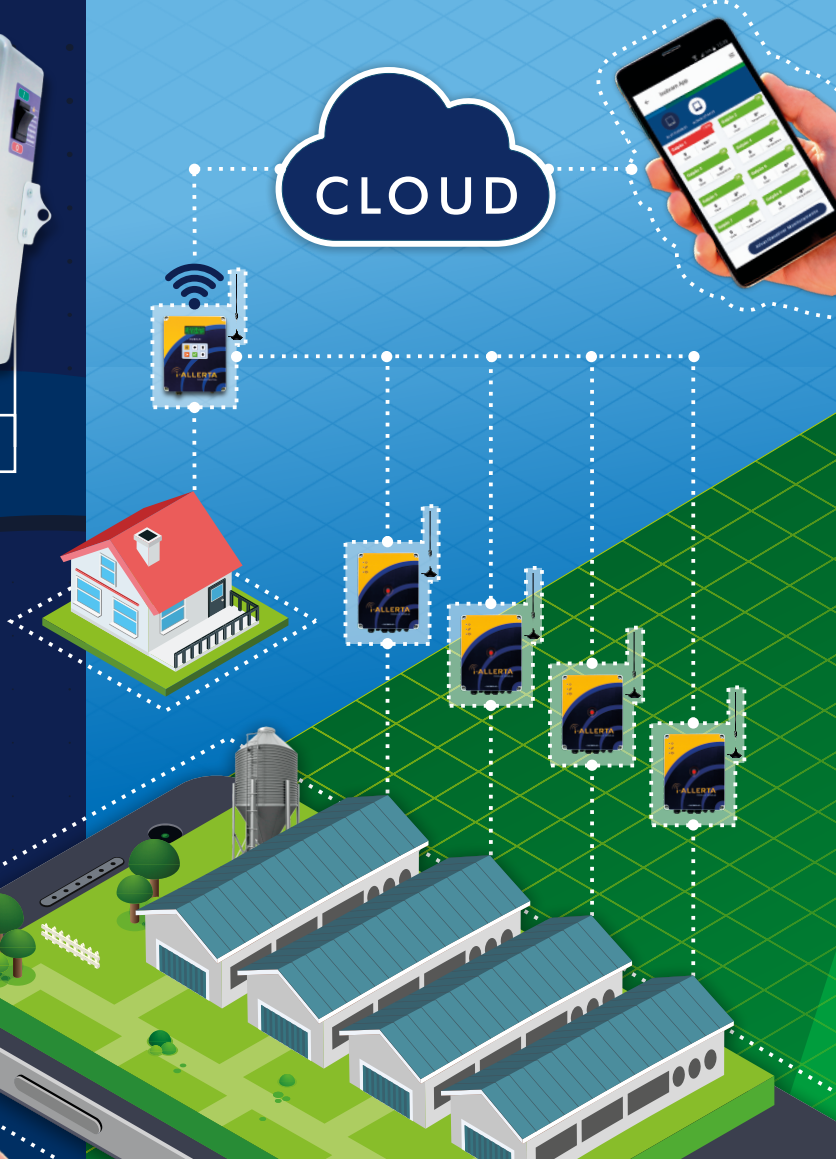
With a user-friendly interface, **i-Allerta** can be installed on any type of farm, giving the farmer much more peace of mind, quality of life, animal welfare, efficient management and greater production gains.

With the **i-Allerta System**, the farm is always secure and protected. If failures are detected related to ambience inside the barn, the farmer is notified immediately, in real time.

It works in synergy with the controller, but acts independently as it has its own set of peripheral devices and measurement sensors, in addition to internal batteries to keep working even in a power outage.

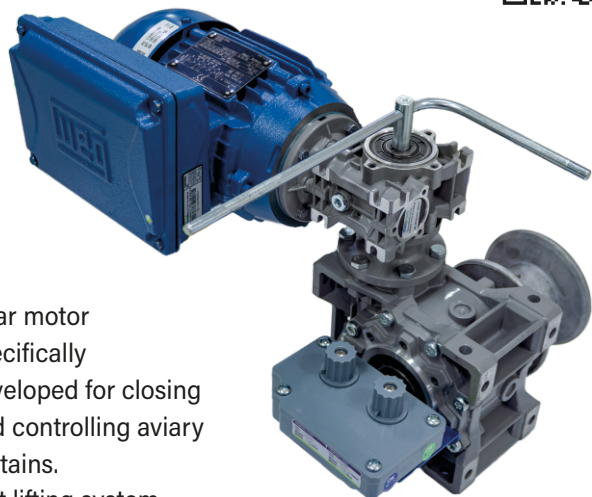
Monitor:

- > the ambience controller;
- > the power supply;
- > the electrical panel;
- > access to the barn;
- > ventilation inside the barn;
- > it helps control equipment in case of failure detection.



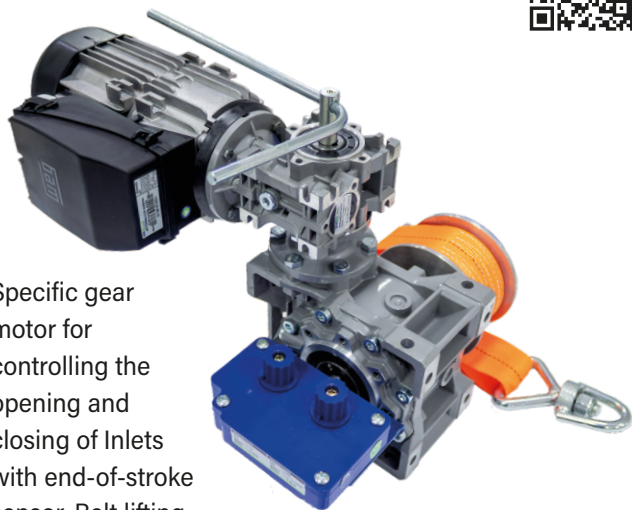
INOBRAM ACTUATOR SYSTEM

INOBRAM CURTAIN MACHINE



Gear motor specifically developed for closing and controlling aviary curtains.
Belt lifting system.
Manual actuation by crank.

CURTAIN MACHINE FOR INOBRAM INLET



Specific gear motor for controlling the opening and closing of Inlets with end-of-stroke sensor. Belt lifting system.

INOBRAM ACTUATOR SYSTEM

Designed specifically for Inlet control.
Does not require control potentiometer.



WATER

FLUSH it12

Solenoid Valve



Developed to refresh the water in nipple drinkers.
Easy programming and maintenance.

Temperature Sensor



INOBRAM DIGITAL HYDROMETER



Digital hydrometers for volumetric water measuring.

INOBRAM 1/2" DIGITAL HYDROMETER



INOBRAM 1" DIGITAL HYDROMETER



INOBRAM 3/4" DIGITAL HYDROMETER



INOBRAM 1 1/2" DIGITAL HYDROMETER



FEED

irs-01

FEED controller

Automates the feeding cycle process. Easy to use and practical.



“

Here at **InoBram**, we know that **work in the field is challenging**. But we also know that with **innovation** and **technology**, we can really help everyday life in the field and make **tasks easier and more pleasant**.

”

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InoBram. Connecting innovation with productivity.

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