

# USER'S MANUAL

## FDFM101

FEED DELIVERY UNIT OF THE  
COMPUTERIZED SWINE FEEDING SYSTEM  
AND TECHNICAL MANAGEMENT

# GESTAL<sub>FM</sub>

BY JYGA CONCEPT INC.



**BEFORE OPERATING THIS EQUIPMENT PLEASE READ  
THESE INSTRUCTIONS CAREFULLY**

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# SECTION 1 SAFETY WARNINGS AND PRECAUTIONS

## 1.0 ENVIRONMENTAL CONDITIONS

- Indoor use only.
- Temperature must be 0 to 40°C (32 to 104°F).
- Altitude up to 2000 meters.
- Installation category II.
- Pollution degree 2.

## 1.1 CLEANING THE UNIT

- This unit is not type rated for exposure to water, DO NOT clean with low or high flow of water.
- Use damp cloth to clean the unit.
- DO NOT use benzene, thinner or other organic solvents and disinfectants. These may cause deformation or discoloring.

# SECTION 1 SAFETY WARNINGS AND PRECAUTIONS

## 1.2 SAFETY WARNINGS

The symbol below highlights a WARNING OR CAUTION:

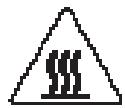
**Figure 1-1. Warning and Caution**



- **A WARNING** identifies situations or actions that may affect user safety. Disregarding a warning could result in user injury.
- **A CAUTION** points out special procedures and precautions that user must follow to avoid equipment damage.

The symbol below highlights a Burn Hazard Warning.

**Figure 1-2. Burn hazard warning**



The symbol below highlights an ELECTRICAL SHOCK HAZARD WARNING

**Figure 1-3. Electrical shock hazard warning**



The symbol below highlights a MOVING PART WARNING

**Figure 1-4. Moving part warning**



**Failure to follow these instructions could result in death or serious injury.**



**Before operating this equipment please read these instructions carefully**

# SECTION 1 SAFETY WARNINGS AND PRECAUTIONS

## 1.2 SAFETY WARNINGS (CONT...)

### For U.S.A

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



**WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

### For Canada

THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS FORM DIGITAL APPARATUS AS SET OUT IN THE INTERFERENCE-CAUSING EQUIPMENT STANDARD TITLED "DIGITAL APPARATUS," ICES-003 OF THE DEPARTMENT OF COMMUNICATIONS.



**Before operating this equipment please read these instructions carefully**

# SECTION 1 SAFETY WARNINGS AND PRECAUTIONS

## 1.2 SAFETY WARNINGS AND PRECAUTIONS CONT...

### IMPORTANT SAFETY INSTRUCTIONS



**WARNING:** When using this product, basic precautions should always be followed, including the following:

1. Read all instructions before using this product.
2. To reduce the risk of electrocution, keep all connections dry and off the ground. Do Not touch the plug with wet hands.
3. DO NOT MAKE ANY MODIFICATIONS TO THE UNIT!
4. DO NOT operate the unit if it has broken, is missing parts, or any unit without the protective covers.
5. ALWAYS unplug the unit from the power source before any operation in the electronic and motor case . Each operation in the electronic and motor case must be carried out by a technician or a qualified electrician.
6. The fuses must be changed by a qualified technician or an electrician and the value of the new fuses must be **exactly** the same one as that replaced.
7. If replacement of the plug is necessary, use only identical replaments parts.
8. ALWAYS disconnect power before any feed unblocking operation.
9. NEVER insert hands in the feed outlet where the feed is dispensed when the unit is plugged in the electrical outlet.
10. Avoid touching the motor in the electronic and motor case after it has been running, it could be very hot.
11. ALWAYS make sure the electronic and motor cases are closed hermetically before washing.



**DANGER:** KEEP water spray away from electrical wiring or fatal electrical shock may result.

## 1.3 SAFETY PRECAUTIONS

1. When cleaning, make sure the electronic and motor cases are closed to prevent causing damage to the unit.
2. Place a washing lid on top of the feed delivery unit to avoid any water infiltration that could cause feed compaction .
3. If the electronic and motor case is equipped with a keyboard, AVOID directing high pressure sprays directly on the keyboard this could cause damage to it.



### ELECTRICAL SHOCK HAZARD WARNING:

Do not submerge the unit in water. Disregarding a warning could result in death, serious, user injury or equipment damage.

# SECTION 1 SAFETY WARNINGS AND PRECAUTIONS

## 1.3 SAFETY PRECAUTIONS (CONT...)



**WARNING:** MOVING PART, disconnect electrical supply at all times when servicing in any way.

## SAVE THESE INSTRUCTIONS

## 1.4 GROUNDING INSTRUCTIONS

This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment-grounding conductor and a grounded plug. The plug must be plugged into the appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.



### DANGER:

Improper connexion of the equipment-grounding conductor can result in a risk of electrocution. Check with a qualified electrician or service personnel if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with this product. If it will not fit the outlet, have a proper outlet installed by a qualified electrician. Do not use any type of adapter with this product.

# SECTION 1 SAFETY WARNINGS AND PRECAUTIONS

## 1.5 EXTENSION CORD USE

Using an undersized extension cord will cause a drop in the line of voltage, resulting in a loss of power and overheating. Always use an extension cord with an electrical rating equal to or greater than the rating of the product.

- Use only 3-wire extension cords that have 3-prong grounded type plugs and 3-pole cord connectors that accept the plug from the product.
- Use only certified waterproof extension cords.
- Use only extension cords having an electrical rating equal to or greater than the rating of the product.
- Do not use damaged extension cords.
- Examine extension cord before using and replace if damaged.
- Do not abuse extension cord and do not yank on any cord to disconnect.
- Keep cord and extension cord away from the animals accessibility. The animals could nibble at them and this could result in electrocution and death.
- Keep cord away from heat and sharp edges.
- Always disconnect the extension cord from the receptacle before disconnecting the product from the extension cord.

## 1.6 OVERLOAD PROTECTION DEVICE

The electric motor is also equipped with an overload protection device which will automatically shut off the motor in the event that the motor draws excessive current or overheats. This device will automatically reset itself and resume normal operation after a short period of time

Note: If the fuses are damaged, they must be changed by a qualified technician or an electrician and the value of the new fuses must be **exactly** the same one as that replaced.

# SECTION 2 OVERVIEW OF THE GESTAL<sub>FM</sub> SYSTEM

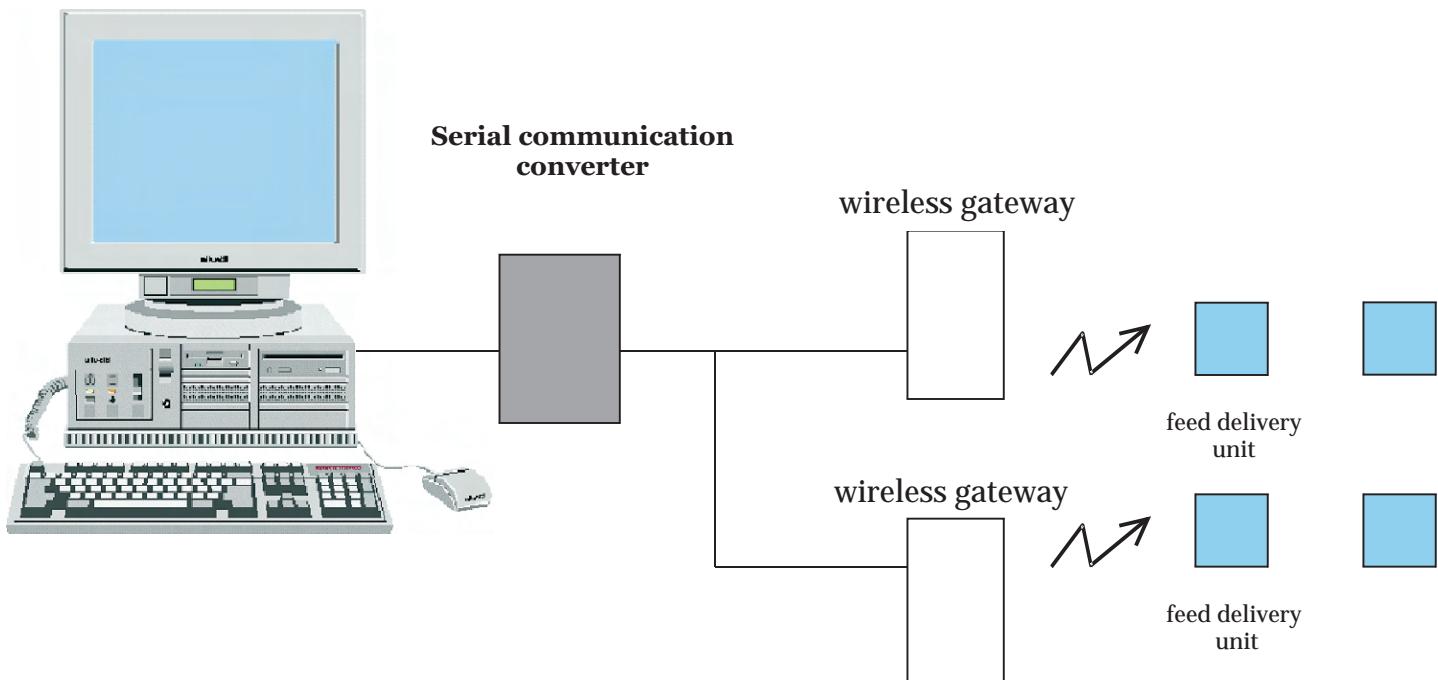
## 2.0 DESCRIPTION OF THE GESTAL<sub>FM</sub> SYSTEM

The **GESTAL<sub>FM</sub> System** is a computerized feeding system and technical management.

This system offers many possibilities to optimize the productivity of each sow and the follow-up of the herd. The **GESTAL<sub>FM</sub>** is designed to be used in the farrowing unit.

A complete installation of the **GESTAL<sub>FM</sub> System** consists of:

- A computer on which runs the feed distribution and management program;
- A serial communication converter allowing communication between the computer and one or more wireless gateways;
- Each wireless gateway makes it possible to put in communication the computer and its serial communication converter with the feed delivery units of a communication zone.
- The feed delivery unit makes it possible to feed individually and under the supervision of the management program running on the computer the sows of a farrowing unit.



Before servicing GESTAL<sub>FM</sub> SYSTEM, be sure you have read and understood in detail the contents of this manual. It is important that you read and strictly adhere to the aspects of safety contained in this manual.

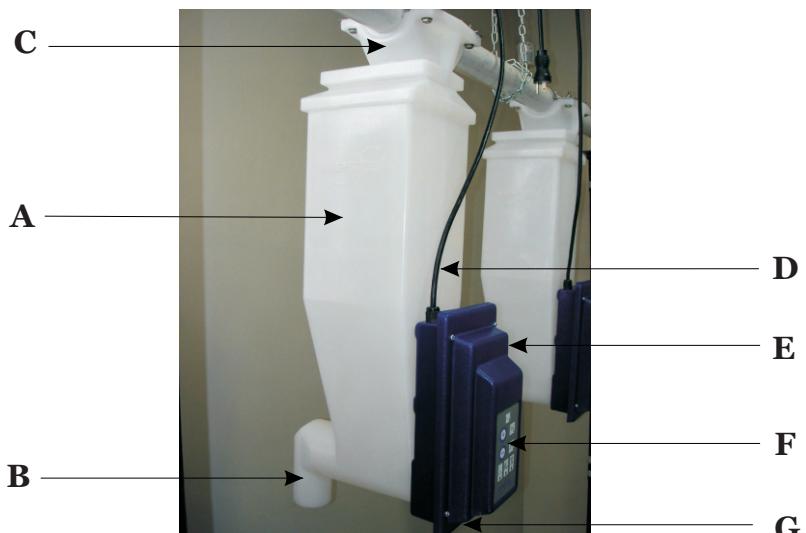
# SECTION 2 OVERVIEW OF THE GESTAL<sub>FM</sub> SYSTEM

## 2.1 TYPES OF FEED DELIVERY UNITS

The feed delivery units of the **GESTAL<sub>FM</sub> SYSTEM** are available in two models:

- The single auger conveyor model; it can be mounted directly to the feed line of most automatic feeding systems or directly on crate doors.
- The dual auger conveyor model; it can be installed directly on crate doors.

**GESTAL<sub>FM</sub>** system with a single auger conveyor mounted on a feed line of an automatic feeding system.



**GESTAL<sub>FM</sub>** system with a single auger conveyor mounted on a crate door.

