

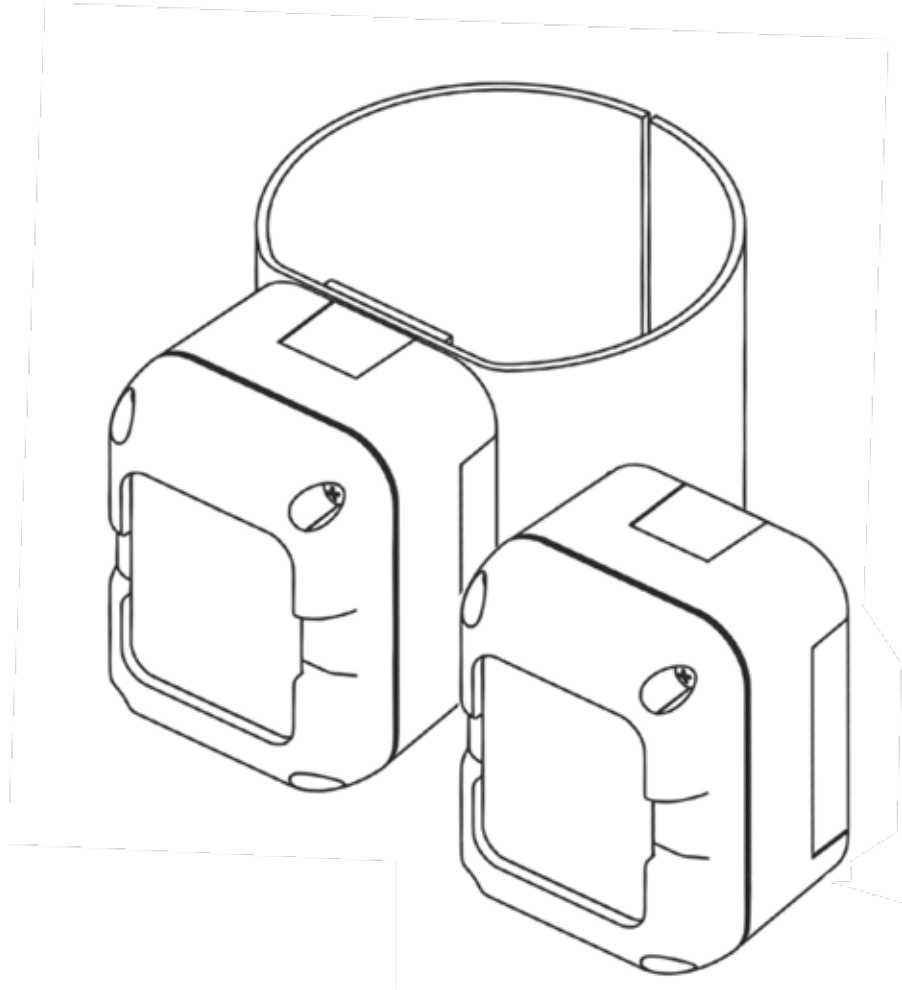
THUNDERSTRUCK[®]
AG EQUIPMENT

 **FertiSystem**

FERT SENSOR
WIRELESS SENSOR



OPERATION MANUAL



Fert Sensor
Version 10/2025

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FertiSystem Company Profile

FertiSystem is a Brazilian leader in the development, research, and production of fertilizer metering devices attachable to planters and seeders. Currently, FertiSystem supplies approximately 95% of Brazilian agricultural machinery and implement manufacturers, and has been operating in numerous international markets since 2008. They have received several state and national awards for its market differentiation and remarkable technological innovations, as well as for the practicality and commercial viability of its products. Notable awards include the RS Industry Distinction Award - FIERGS/CIERGS 2008, the Gerdau Best of the Land Award 2008, and the Três Porteiras Trophy from Federasul - RS in 2015 and 2016.

For over five years, FertiSystem has been investing in research and development of new technologies and services. Since 2018, FertiSystem has been designing and delivering solutions through intelligent systems, introducing new products and digital processes such as embedded software, human-machine interfaces, electronic hardware, and sensors. These technological advancements play a strategic role in the company's future and in the sustainability of agribusiness, making a significant impact across various sectors - particularly in planting processes - through automation of fertilizer dosing and the integration of data and knowledge. The technology we bring to the field has been key to reaching our current level. Continuous evolution is now solidified through the concept and vision of digital agriculture.

SPECIFICATIONS**Description**

The Fert Sensor is designed to monitor the flow of granular materials during planting and field operations for crops like soybeans, corn, sugarcane, and more.

The Fert Sensor is a completely wireless device. Communication with the monitor is done via radio signal, and it is powered by a high-tech non-rechargeable battery. Its electronic components are fully protected against impurities (such as dust, soil, etc.) and water, allowing the device to operate under the most demanding planting conditions without requiring maintenance.

Sensor communication is exclusively compatible with FertiSystem monitors.

Technical Specifications

Dimensions: 2.36 in x 4.33 in x 3.14 in (H x W x D)

Weight: 0.31 lb

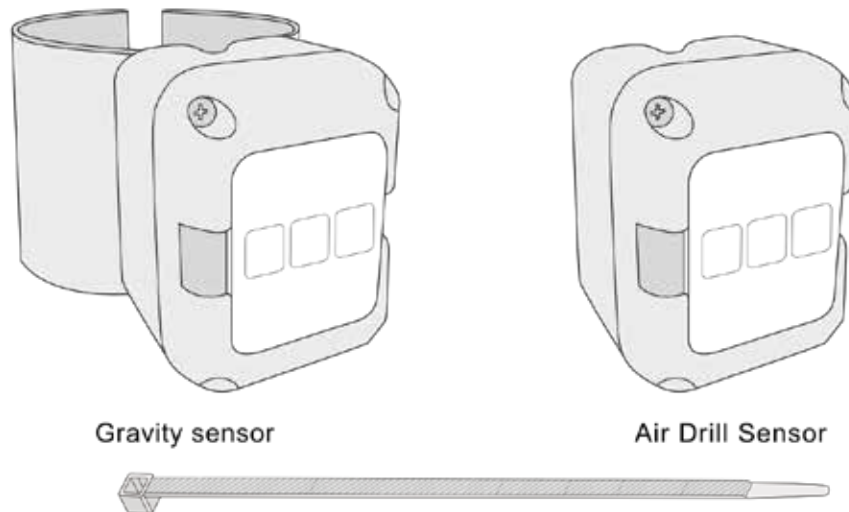
Range: 3.2 ft with obstacles

Battery: Non-rechargeable – Lithium

- Approximate lifespan of 2,500 hours of use (at 25°C)
- Replaceable

Communication: RF 915 MHz

Operating Temperature: Up to 140°F



Ziptie

Fig. 01

INSTALLATION

Before starting the installation of the Fert Sensor, it is necessary to complete the step-by-step instructions for this procedure can be found in the Wireless Monitor AT200 operation manual.

Installation

1. Identify the most suitable position on the equipment for installation. Avoid locations where the sensor may come into contact with metal parts and/or moving parts of the implement.
2. Pass the ziptie (included with the product) through the channel on the front part of the sensor (Fig. 02)
3. Tighten the strap until the sensor is securely fixed, but avoid over-tightening to the point of deforming the hose and causing blockage.
4. To finish, cut off the excess strap.
5. For thin hoses and pneumatic systems, it is recommended to use the Fert Sensor Air Drill.

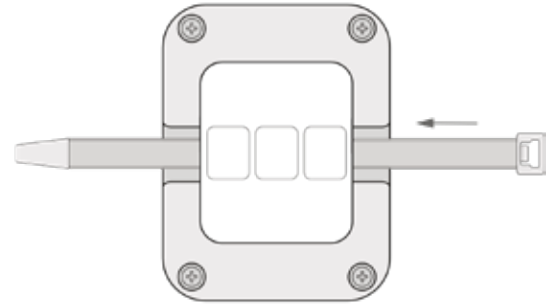


Fig. 02

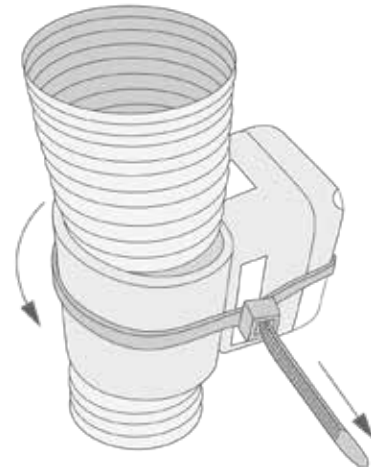


Fig. 03



Gradually tighten the strap and test the sensor's attachment by shaking the hose with movements similar to those made by the implement during operation.

BATTERY REPLACEMENT

To purchase original batteries, contact the product seller directly. To replace the battery:

Battery Replacement

1. Remove the sensor from the implement by cutting the fixing strap or removing the entire hose. Battery replacement is not recommended while the sensor is installed.
2. Using a Phillips screwdriver, loosen the four fixing screws and remove the cover.
3. Pull the battery out of the casing, followed by the foam padding, to access the battery connector (Fig. 06). Note the position of the wires and terminal to connect to the new battery.
4. Pull the male connector attached to the battery. Be careful not to use excessive force to avoid damaging the fixed connector (Fig. 07).
5. Return the battery's protective foam and press it until it is fully seated (Fig. 08).
6. Place the battery in the designated space within the foam. Ensure that the wires coming from the battery are positioned opposite the connector (Fig. 09).
7. Replace the cover and tighten the screws until the casing is fully closed.

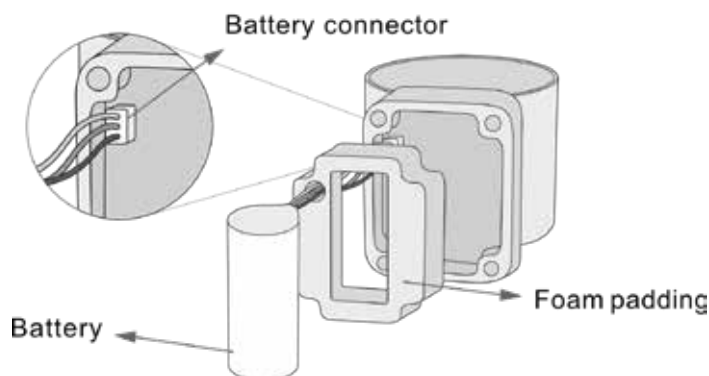


Fig. 06

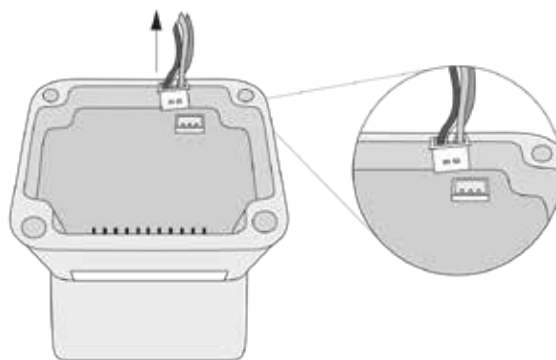


Fig. 07

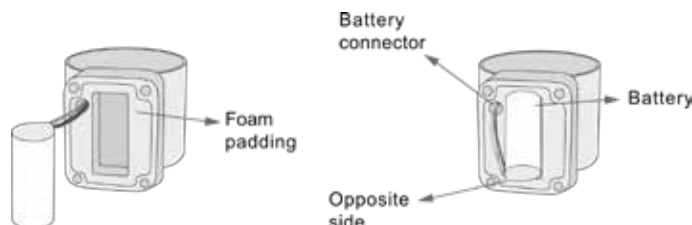


Fig. 08

Fig. 09



The connection should be smooth and require no force. If the connection is difficult, do not apply force; check if the connector is properly aligned.

BATTERY DISPOSAL

The Fert Sensor is equipped with electronic components and a lithium battery. For this reason, it should not be disposed of with regular household waste. Disposal must be done at designated electronic waste collection points.

This device contains FCC ID VVJAN1310UA-A-915

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that cause undesired operation.

For further information, please visit www.fcc.gov

Warranty Terms

The warranty for the Fert Sensor is granted exclusively to the original purchaser for a period of one (1) year from the date of purchase, following the issuance of the invoice by FertiSystem, and covers manufacturing defects that may compromise the operational performance of the product.

Conditions

- A) The product is warranted against any manufacturing defects, provided it is proven that the parts and components were supplied by FertiSystem;
- B) Parts and components will be replaced if the defects are verified by FertiSystem technicians, as described in item D
- C) FertiSystem guarantees the repair or replacement of parts and components free of charge, provided the warranty conditions are met. In case the warranty period has expired or the warranty has been canceled, any technical assistance provided by FertiSystem, as well as the replacement of parts and components, will be charged at current market prices;
- D) All warranties for FertiSystem products are considered bench warranties, meaning they do not include technician visits to the customer for installation or repairs. The Fert Sensor may only be disassembled and repaired by authorized personnel; otherwise, the warranty will be void.
- E) In special situations, FertiSystem may provide its technicians free of charge for advisory purposes, in order to address specific occasional issues. However, travel, accommodation, and meal expenses related to such service shall be the responsibility of the purchaser.

Warranty

- A) Cases of assembly outside the standard fixing procedures, misuse, abuse, negligence, or lack of proper maintenance, in disagreement with the instructions prescribed in the operator's manual;
- B) Parts damaged due to misuse or lack of proper maintenance;
- C) Damage or harm of any kind or nature caused immediately by a non-compliant, presumptive, or uncertain object to persons or property;
- D) In particular, if the Fert Sensor shows external damage or clear evidence of misuse by the customer, these will be considered as factors responsible for the resulting damage, and the warranty shall be rendered void;
- E) Any losses, costs, penalties, and damages including loss of profit; crop loss; losses due to delay in any operations; any expense or loss incurred from labor, adjustments, transmissions and charts prescribed by the manufacturer, replacement by machine rental; debts of the purchaser to their clients or other persons; and all other consequential damages and losses, debts, or negligence of the company, its agents, employees, and subcontractors that may be alleged as a result of the use or technical failure of the AT200 Monitor. In the event the purchaser acts in bad faith in any exchange or return procedure, seeking undue or unfair advantage, FertiSystem shall be released from any commitments it has assumed under these conditions.

IMPORTANT: FertiSystem reserves the right to make changes to the product without prior notice. This warranty term supersedes all previous warranties.

NOTE: In the case of broken, damaged or defective product, please contact your Thunderstruck Ag Equipment rep for assistance.