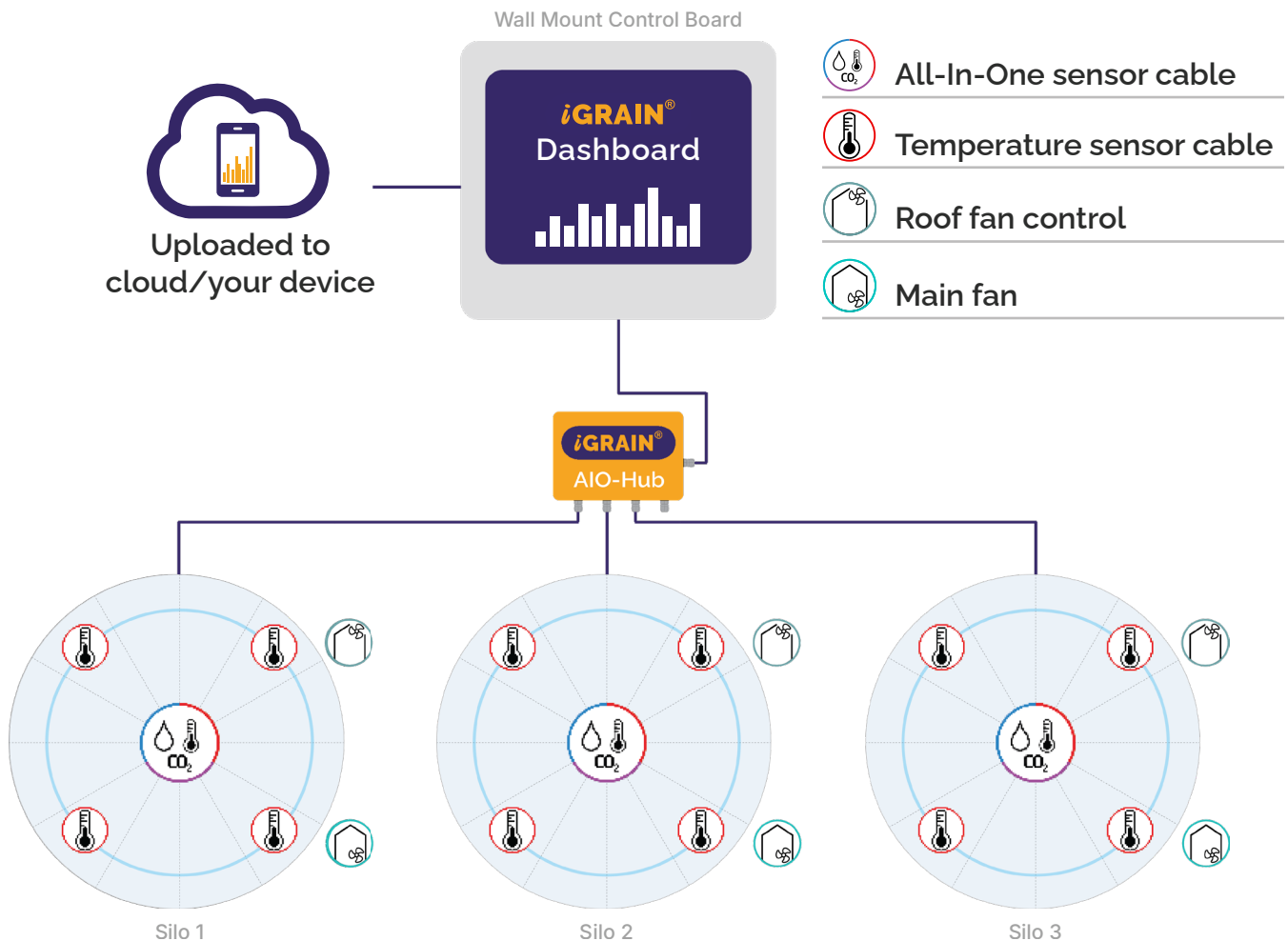




All-In-One System Monitoring



Stay Ahead with Smart Grain Insights

- ✓ **Real-Time Grain Condition Monitoring**
iGRAIN provides continuous, accurate real-time data on your stored grain quality, plus AI-driven insights to guide safe grain management.
- ✓ **Cost Savings & Risk Reduction**
By detecting issues early, All-In-One system monitoring minimizes losses and reduces the need for costly interventions.
- ✓ **Smart Decision-Making using Data**
The intuitive dashboard consolidates all your storage information in one place. With clear visualizations and alerts, you can make informed decisions quickly, reducing guesswork and improve operational efficiency.
- ✓ **Remote Access & Control**
Monitor your grain from anywhere. The cloud-based dashboard allows you to check conditions and receive alerts on any device, giving you peace of mind and flexibility.

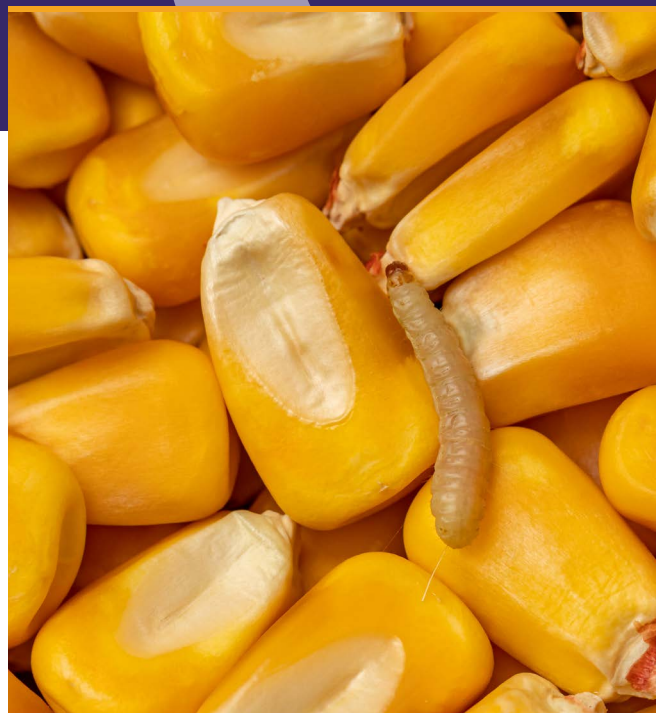


Early Warnings Smarter Decisions Better Results

Proactive Crop Protection

Effective crop protection begins after harvest, when grains are stored in silos and flat stores. At this stage, the most significant threats are not just pests but also moisture, and insects/fungus that can lead to spoilage, contamination and financial losses.

This is where iGRAIN sets the standard for intelligent monitoring. iGRAIN's technology focuses on real-time data collection using advanced sensor systems that measure temperature, moisture, CO₂ concentration, inventory status and perform automated aeration within the silos. This ensures optimal storage conditions are applied by preventing fungus, pests, and spoilage before they cause significant damage.



Safer Crops for the World

The benefits go far beyond preservation. Effective monitoring safeguards food safety standards and maximizes profitability by maintaining the highest possible quality. It retains its market value, giving you a competitive edge and increased earnings.

By reducing waste and preventing costly losses, you not only protect your bottom line, but also contribute to global sustainability goals, making your business part of the solution to food security challenges.

Investing in advanced grain monitoring is not just about protecting grain, it's about protecting your brand, your customers, and your future.

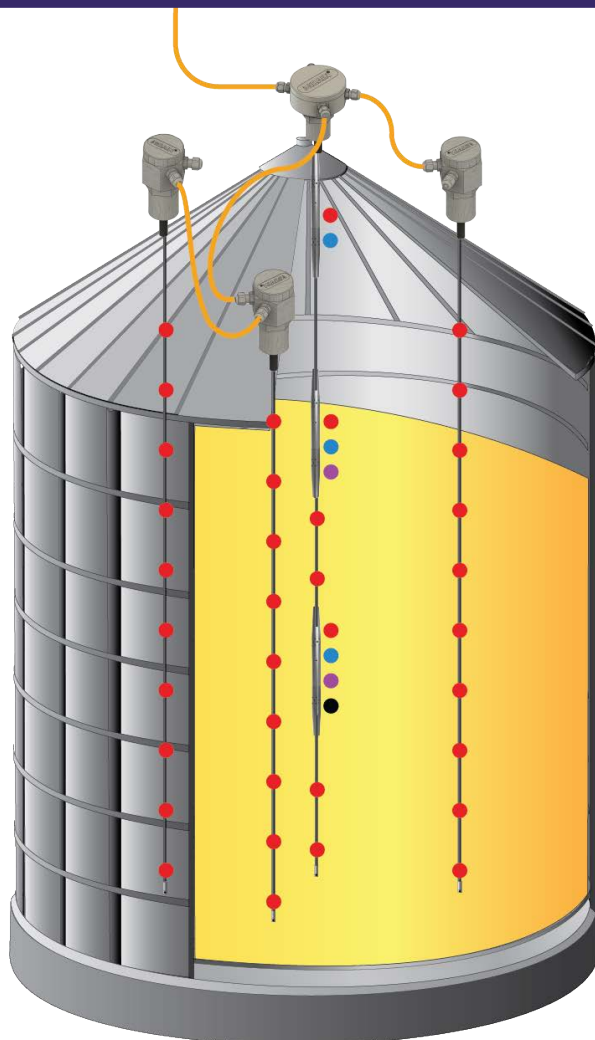
At the end of the day a suitable iGRAIN monitoring and control system costs less than €0.2/ton!



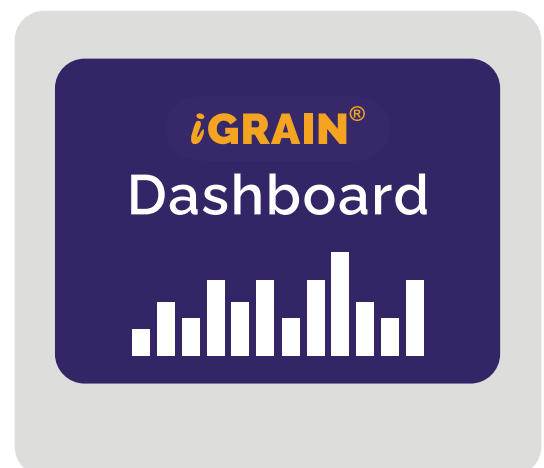
All-In-One System

Our iGRAIN All-In-One (AIO) system is designed for maximum efficiency and simplicity in grain storage management. Its purpose is to turn your inventory tracking into one streamlined solution, by reducing complexity, improving your decision-making, and ensuring the optimal grain quality throughout storage duration. It's a complete package for automation, safety, and efficiency.

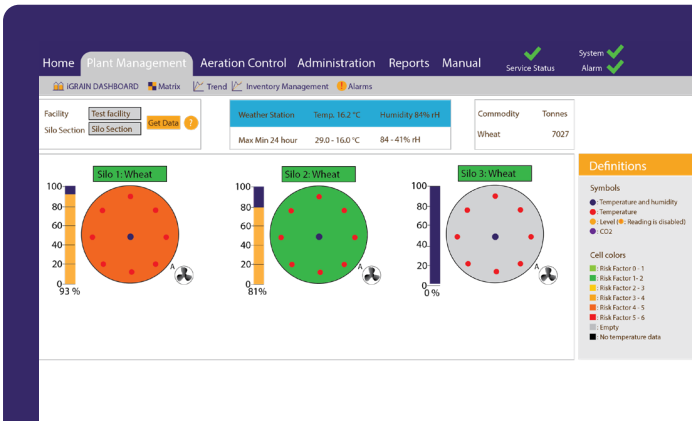
In the example below each silo is equipped with three temperature sensor cables and one AIO cable, which combines multiple measurements such as temperature, humidity, CO₂, volatile organic compounds (VOC) and grain level. These cables connect to the AIO hub, ensuring seamless data collection from every sensor. From the hub, all data flows to a custom wall-mounted control board, which serves as the central interface for your facility. From here you will have access to the iGRAIN Dashboard, giving operators full visibility and control over all the relevant data and settings - all in real-time. The system is also cloud-connected, enabling remote access through the iGRAIN Smart App for monitoring and management from anywhere.



-  Temperature sensor
-  Moisture sensor
-  CO₂ sensor
-  VOC Volatile Organic Compounds



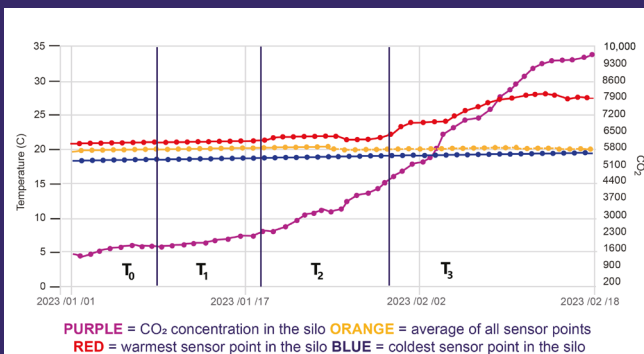
Introducing iGRAIN Dashboard



Plant Management

The Plant Management page in the iGRAIN Dashboard provides a complete, real-time overview of all silos in your facility in one intuitive overview.

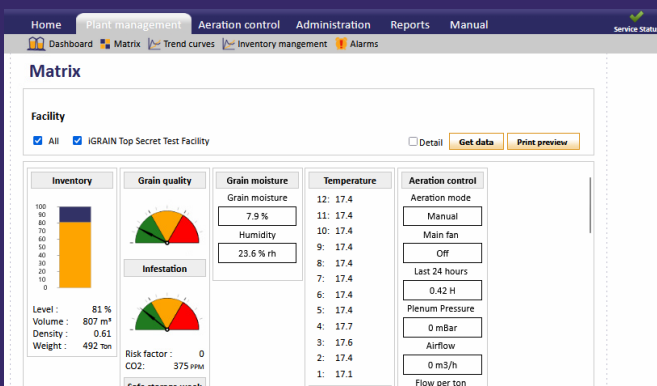
It allows operators to monitor grain conditions, aeration status, and it notifies the user with alarms about critical conditions, plans, grain care actions, and track inventory levels. Use Plant Management as your main overview of your facility so that you are always informed.



Trend Overview

The Trend Overview provides the user with a clear, visual overview of how key storage parameters such as temperature, moisture, and CO₂ levels change over time. By displaying historical data in easy-to-read graphs, it helps operators identify patterns, predict potential issues, and make proactive decisions to maintain grain quality.

This insight enables better planning for aeration, fumigation, and inventory management, reducing risks and optimizing storage.

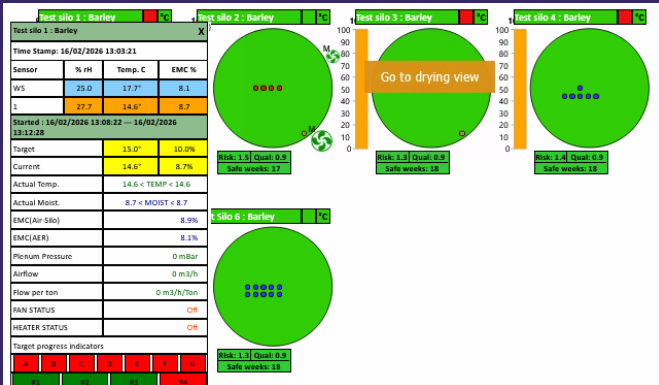


Matrix View

The Matrix View provides a detailed overview of all temperature readings from each sensor cable in every silo, showing the highest and lowest readings. Sensor cables are grouped per silo. If a sensor is above the grain, and therefore not in contact with it, it will not trigger alarms or appear in the Trend Overview unless specifically selected. This structured view enables quick identification of anomalies and ensures precise monitoring of grain conditions.



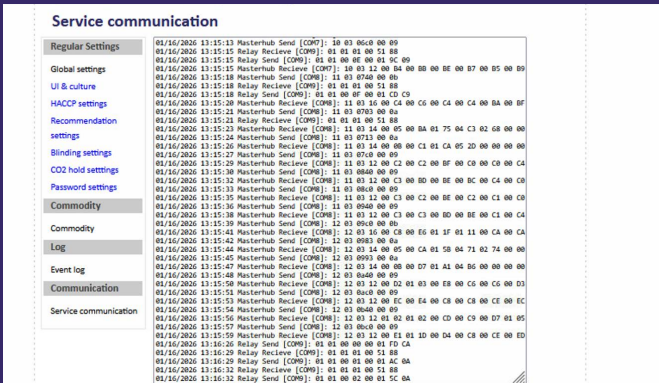
Learn more
0111-026A



Fully Automatic Aeration Control

The user selects **ONLY** the target grain moisture and target temperature. Then the iGRAIN aeration control module brings the grain to the target condition.

Built on advanced Equilibrium Moisture Concentration monitoring (EMC) control; it adapts to any climate and works for any type of grain. This reduces energy consumption, prevents spoilage, and helps maintain grain value immediately after harvest.



Troubleshooting

Our dashboard streamlines troubleshooting by offering features which, deliver fast, precise diagnostics, to keep your system running reliably. Our mapping tool displays how all cables and sensors are connected, helping you and our support team confirm correct installation and quickly spot setup issues. The service communicator displays raw data straight from your equipment, making it easy to spot irregular readings or sensor faults.



Learn more
0111-026A

Service



In-house testing and configuration of full systems

All our systems undergo a full 24-hour in-house test prior to delivery. During this process, the system is configured, exactly as it will be installed on site. This rigorous process ensures stability, functionality and correct configuration of both the system as a whole and all the individual system components.



Installation and commissioning

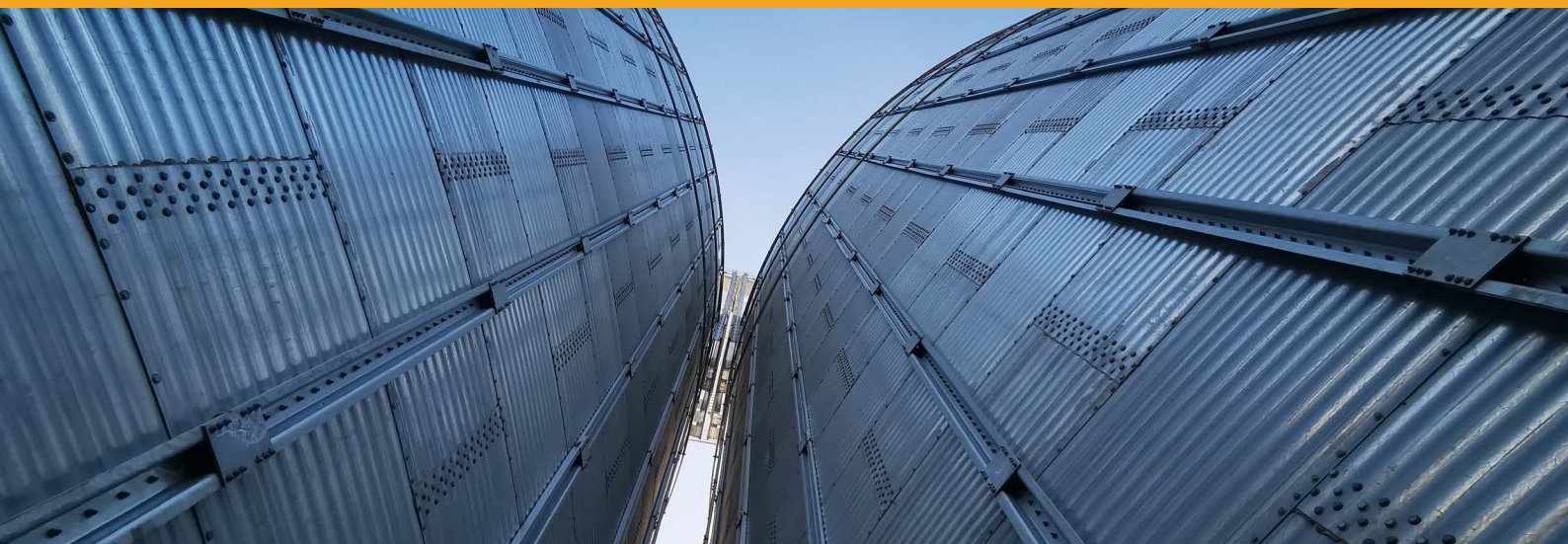
Each of our systems is delivered with user friendly manuals with site specific installation diagrams and guidance for each step of the installation process. The iGRAIN online team will assist the installation process with guidance and troubleshooting where needed. After installation the system functionality is reviewed by our online team and commissioned.



Online service and on-site service

All of our complete systems includes a comprehensive service package with an hourly service allowance for direct online service. This service is used in the installation, commissioning, trouble shooting, and after sales service. Whether you have a question, need technical assistance, or require follow up support, our team is available via email, phone or remote PC access to help you quickly and efficiently. For special projects we also offer on-site visits, installation, training and onsite commissioning.

— Tested to Perform and Supported to Last —



Monitoring equipment

Sensor solutions

Advanced silo monitoring

- CO₂ (Carbon dioxide monitoring), infestation control
- Grain moisture control
- Temperature sensors
- Integrated AIO multi sensor solutions
- Sensor probe with multi sensor solutions
- VOC, volatile organics for oilseed monitoring
- Phosphine safe solutions
- Solutions for both silos and flat stores



Inventory management

Real-time grain level monitoring

- Bin auditor laser or radar-based sensors



Aeration control

Automatic fan control in any climate zone

- Advanced iGRAIN software solution
- Control output to PLC/SCADA systems or via relays
- Weather station



Data communication solutions

iGRAIN Dashboard Platform

- Handheld reader
- Smartphone
- Wallmount PC



Learn more
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Grain preservation technologies

Nitrogen fumigation systems

Pesticide free fumigation

- Complete solution with Nitrogen distribution to silos
- Monitoring of Oxygen confirming the fumigation process



In-bin-drying

Smart drying based on EMC control

- All-In-One sensors
- Pressure sensor
- PLC-integration
- Genuine iGRAIN moisture control



Grain chillers

Optimal temperatures for your grain

- Genuine chilling technology with feedback from in-bin moisture sensor



UV Colour-Sorter

Advanced Mycotoxin removal

- UV colour-sorter based on UV luminescence and spectral manipulation technology



Learn more
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