



PGA BIN MONITORING SYSTEM

The PGA Bin Sensors wirelessly monitor the bin conditions of stored grains to ensure the best grain quality and prevent spoilage.



PGA Wireless Bin Monitoring Systems

- The most **affordable bin monitoring system** on the market.
- **No subscription fee** required.
- **Compatible with** most existing temperature and moisture cables.
- **Easy to install**—get up and running quickly.
- Receive **live alerts and notifications** directly on your phone.
- Wirelessly monitor bin conditions to ensure the best grain quality and prevent spoilage.
- **Access your data anywhere** via our website or app (available for Android and iOS).
- **Wireless board-to-board connections** ensure extended range for larger setups.
- Requires **WiFi or LTE** connection to link to the server.
- **Fan Control Add-On:** Enable remote aeration control from your phone or computer through the PGA bin system.
- **Level Sensor Add-On:** Manage grain levels remotely and prevent overfills.
- Optional solar power solution: **30W Solar Panel** with **12V 7Ah rechargeable batteries** for continuous power in remote areas.



PGA Moisture & Temperature Cables

Prairie Grain Analyzers specializes in high-precision **moisture and temperature cables** for comprehensive grain monitoring.

- **Accurate temperature and moisture sensors** designed to optimize grain storage management.
- Suitable for **hopper bins, flat bottom bins, and other storage containers**.
- PGA roof brackets available for proper installation and support of radius cables.
- Available in various **sizes and lengths**, with customizable options to meet your specific requirements. Contact us for more information.



PGA Fan Controller

The **PGA Fan Controller** allows you to manage your aeration fans remotely through our website or app.

- **Remote control** of bin fans using your smartphone, tablet, or computer with on/off switches and timer settings.
- **Compatible with all certified single and three-phase aeration fans** for versatile use.
- Our **ambient sensor** tracks temperature and humidity conditions outside of the bin to ensure ambient conditions are optimal for efficient aeration.
- **Automatic fan controllers** hydrates and dehydrates grain according to the humidity outside of the bin.



PGA CO2 & Radar Level Sensors

- **Lidar Level Sensor:** Delivers precise, non-contact measurement of grain levels.
- Receive **real-time alerts** for abrupt decreases in bin levels, enhancing **theft prevention** and control measures.
- Get **real-time alerts** on CO2 levels, detecting early signs of spoilage, mold, or insect activity.
- Easy to install: **No modifications** required—simply mount the bracket on your grain bin's roof door.

Why Monitor CO2?

Insects and molds are aerobic organisms that release carbon dioxide (CO2) into the grain mass. Rising CO2 levels within the bin indicate biological activity. While ambient CO2 is typically 350-400 ppm, a stable grain mass shows 400-600 ppm. Levels higher than this suggest spoilage long before temperature or visual signs become apparent, providing you with an early warning to take action.



Prairie
Grain Analyzers