

PGA GRAIN BIN MONITORING SOLUTIONS



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 Sensor

Detect Spoilage Before It Starts

Insects and molds are aerobic organisms that release carbon dioxide (CO₂) as they grow and spread within stored grain. Rising CO₂ levels inside a bin are a **proven early warning** of biological activity and spoilage — often detected **long before temperature shifts or visible signs appear**.

- ◆ **Early Detection:** Identify spoilage, mold, or insect activity before it spreads.
- ◆ **Accurate Readings:** Stable grain typically measures **400 – 600 ppm** (ambient ≈ 350 – 400 ppm); higher levels indicate deterioration.
- ◆ **Continuous Monitoring:** Tracks CO₂ changes in real time for actionable insight.
- ◆ **Optimal Placement:** Mount at the **top of the bin** to monitor the air released by the grain mass.
- ◆ **Integrated Alerts:** Seamlessly connects to PGA's Bin Monitoring System and mobile app for instant notifications and trend tracking.

Why Monitor CO₂?

Every form of biological activity releases CO₂. Monitoring it gives you the earliest, most reliable indicator of spoilage — so you can act fast and protect grain quality.



PGA SiloScan Pro

Cable-Based Radar Precision – Reliable, Proven, Smart

PGA SiloScan Pro Guided-Wave Radar – Precision That Cuts Through Dust The SiloScan Pro uses advanced guided-wave radar to deliver accurate grain-level readings in even the toughest bin conditions. Microwave pulses travel down a probe and instantly detect where grain begins – giving you dependable, real-time visibility that dust, temperature, and humidity can't interfere with.

- **Guided-Wave Radar Accuracy** – engineered for agricultural storage
- **Performs in Dust + Moisture** – reliable where optical sensors fail
- **Real-Time Monitoring** – see your grain levels anytime, anywhere
- **Theft & Unauthorized Unloading Detection** – get alerts for sudden drops
- **Instant Smartphone Alerts** – critical changes sent straight to your phone
- **No Subscription Fees** – powerful technology without ongoing costs
- **Built for Long-Term Use** – rugged and maintenance-free Smart. Durable. Always on. Better control over every bushel.

Real-Time | Radar | Dust-Proof | Maintenance-Free



PGA SiloScan Max

Advanced FMCW Radar – Powerful, Accurate, and Built to Last

The SiloScan Max represents the next generation of radar-based grain-level monitoring. Using FMCW (Frequency-Modulated Continuous Wave) technology, it continuously measures distance and detects even the smallest grain-level changes with incredible precision – no moving parts, no maintenance, and no guesswork.

- **FMCW Radar Technology:** Continuous-wave radar ensures high-resolution, real-time accuracy.
- **High Precision:** Detects level changes within ± 3 cm, even in dusty or humid environments.
- **Penetrates Dust:** Maintains reliable performance where other sensors fail.
- **Durable & Weather-Resistant:** Engineered for harsh agricultural and outdoor use.
- **Real-Time Data & Instant Alerts:** View live grain levels and receive notifications directly on your phone.
- **Theft Detection:** Get alerts for sudden level drops or unauthorized unloading.
- **No Subscription Fees:** Complete access without ongoing costs.
- **Seamless Integration:** Connects with PGA's Bin Monitoring System and web platform for complete inventory control.

Modern radar performance for smarter, safer grain management.



PGA Portable Reader

Ergonomic Handheld / Portable Bin Cable Reader

The simplicity of handheld cable reading – redefined by modern technology. The PGA Portable Reader delivers fast, intuitive grain cable readings without subscription fees or complicated apps. Designed for farmers who value accuracy, simplicity, and portability.

- **High-Visibility LED Touchscreen:** Easy to read in all lighting conditions.
- **Plug-and-Play Simplicity:** Instant setup with no configuration required.
- **Universal Cable Compatibility:** Works with all PGA moisture and temperature cables.
- **Long-Lasting Rechargeable Battery:** Lithium-ion design for full-day field use.
- **PGA "Daisy-Chain" Technology:** Read data from multiple connected cables in one sequence.
- **Data Storage:** Automatically stores readings for later review.
- **Durable Design:** Built for field conditions with ergonomic grip and rugged housing.
- **No Subscription Fees:** 100 % standalone operation.

Fast, reliable, and simple – the portable solution for instant grain-bin insights.

