

# 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 (CO<sub>2</sub>) as they grow and spread within stored grain. Rising CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub>?

Every form of biological activity releases CO<sub>2</sub>. 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  $\pm 3$  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.

