Auger Sampler

User Manual

V2.0

Introduction

The Prairie Grain Analyzers Auger Sampler is designed to automatically collect consistent and representative grain samples directly from the auger flow during grain handling. Whether you're monitoring quality during harvest or preparing samples for moisture or protein testing, this device ensures reliable performance with minimal setup.

Power Supply: 12V 4A
Material: Aluminum
Weight: 3.6 kg (7.9 lbs)

Installation Instructions

To install the Auger Sampler onto your grain auger:

1. Remove the existing inspection plate from your auger.
2. Mount the Auger Sampler onto the inspection plate provided with the unit. Ensure it is secured firmly using the designated fasteners.

3. Reinstall the inspection plate (now with the Auger Sampler attached) back onto the auger.
4. Align the sampler vertically and tighten all fasteners. To adjust its angle, simply loosen the wing nuts, straighten the sampler, then retighten.

⚠️ *Do not install while the auger is in operation*

Getting Started

⚡ **Powering On**

- Power the auger sampler with a 12V power source.
- Wait **5–10 seconds** for the unit to boot.
- During startup, the display will show: **88 88**.
- Once the system is ready, the screen will display: **00 00**.

Controls Overview

- **Left Knob – Grain Size (00–99):**
  Controls the **size of the sampling opening**.
  Higher numbers = **larger opening** = more grain sampled.

- **Right Knob – Delay (00–99):**
  Controls the **delay duration for the sampling gate**, as a percentage of a **30-second cycle**.
  - ○ A **lower number** = quicker open/close → **smaller sample**
  - ○ A **higher number** = gate stays open longer → **larger sample**

  - ⏱ **Examples:**

    - ■ 01 = 1% of 30s = the gate swings open and stays open for 0.3 seconds before closing and repeating
    - ■ 50 = 15 seconds
    - ■ 99 = ~29.7 seconds

Setting the Auto Shutdown Timer

The auto shutdown feature allows the sampler to turn off automatically after a set time.

🕐 **To Set the Timer:**

1. **Hold the right knob** for **2 seconds**.
2. The screen will show: 0h 00 (Hours and Minutes).
3. This menu lasts **5 seconds**. If no input is made, it returns to normal mode.

🔧 **Adjusting Time:**

- **Right knob** = Set **minutes** (0 to 59)
- **Left knob** = Set **hours** (0 to 9)

⏱ **Examples:**

- For **30 minutes**, set: 0h 30
- For **1 hour 25 minutes**, set: 1h 25

Turning Off the Auger Sampler

✅ **Recommended Method:**

- Manually set both values to 00 00 on the main screen.
  This ensures the sampling gate is fully closed and no grain escapes.

⚠️ **Avoid:**

- Shutting off the power from the **rear switch** while the motor is active.
  This may stop the gate in an open state and allow grain to fall.

Additional Notes

- **Minimum working values** for Grain Size and Delay are 01.
  00 is allowed but means **"disabled"** (no operation).
- Always mount securely before operating.

Inspection Plates

To request a custom inspection plate, please email technical@grainanalyzers.ca with the dimensions and mounting hole layout, as illustrated below.
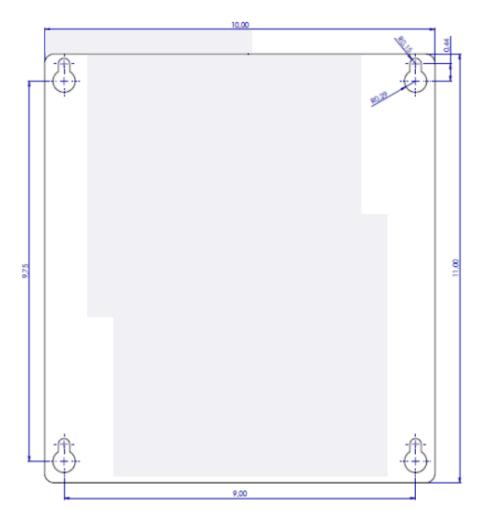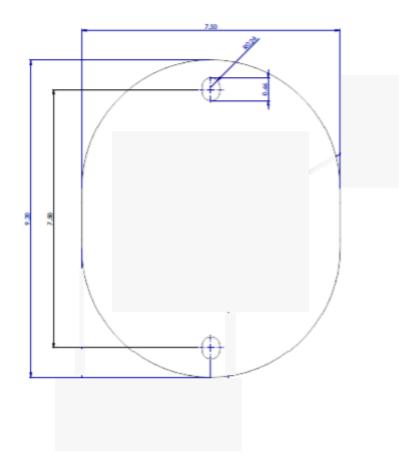
Plate 1

Plate 2

Contact Us

General Inquiries and Quote Requests

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Office

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