FVL-100

BINMASTER®

BATTERY-POWERED LASER

Single-Point Level Measurement for Feed Bins

The battery-powered FVL-100 level sensor eliminates the expense of wiring and simplifies setup, addressing the installment and investment concerns of feeding operations. The FVL-100 visible red laser installs quickly through a 1.5” or 2” NPT connection using an adjustable swivel mount or fixed angle mounting plate. Powered by a Lithium battery, it measures livestock feed in silos up to 35 feet tall. It takes interval readings once per hour with a battery life of three to five years. LoRa long range communications send measurements to the FeedView® web application for easy access from your phone, tablet, or desktop PC.

Sensors with Sensibility

1. Battery-powered simplifies installation and eliminates wiring
2. Long battery life of three to five years depending on frequency of measurement
3. 2” NPT threaded mounting with optional fixed or adjustable mounting plates
4. Single point measurement at distances up to 35 feet
5. Easy-to-use FeedView® web application for data monitoring and alerts
6. LoRa transceiver for reliable long-range data communications up to one mile line-of-sight
7. Programmable time intervals for sending measurement data—every hour, every day, or something in between
8. Dust tube protects laser lens from buildup to minimize maintenance
9. Visible red laser for aiming that is safer than invisible laser

Features that make sense

Simplicity: No complex connections or confusing wiring diagrams. Sensor just screws into a fixed or aimed mounting plate. Battery replacement is as easy as a flashlight.

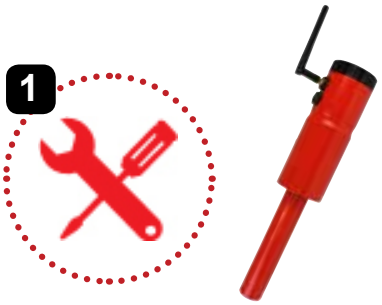
Affordable: Eliminate wiring a power supply to the sensor. The cost of an electrician and wiring components can often double the cost of sensor installation.

Versatile: Omitting wiring allows sensors to be mounted virtually anywhere – outside a plant, in large facilities, or in remote areas–using long range LoRa communications.

Accessible: Sensor data is sent to the FeedView web application where it can be viewed on a phone, tablet, or desktop PC. Set automated high and low level alerts.

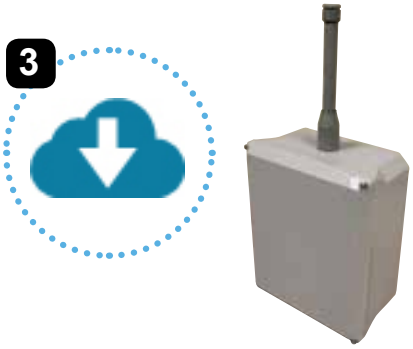
FVL-100 Simplifies Sensoring

Easy as 1, 2, 3…



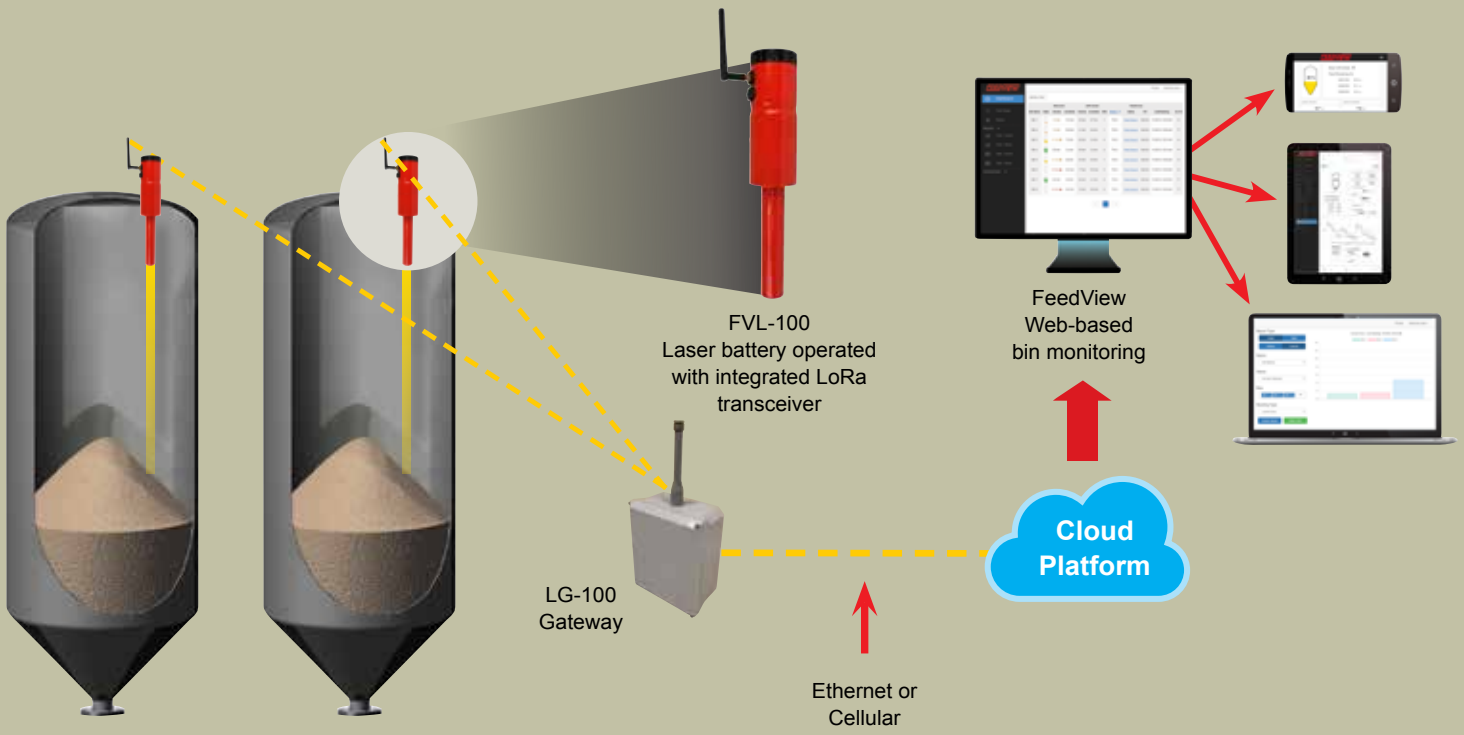
Install the Sensor: Cut a 2.5” hole in the silo. Then, choose from an adjustable 0° to 40° swiveling mounting plate or a fixed mounting plate with 0°, 5°, 10°, or 30° angle.

Power and Aim the Laser: Insert the battery and aim the laser to the desired measurement point.



Connect to the Cloud: Connect the LG-100 gateway to the internet via cellular or ethernet. You are ready to access data from FeedView®.

All set. Ready for readings!



FeedView® Data Monitoring

Get remote monitoring via your phone, tablet, or PC and 24/7 monitoring using the FeedView web application. FeedView is a comprehensive SaaS that automatically updates bin levels, projects feed consumption, and can help manage medicated feeds (VFD) and delivery schedules. Get accurate, reliable bin information that updates automatically after each measurement. Get automated alerts via email or SMS text message. Historical reporting optimizes ordering and logistics. Never run out again!

Adjustable or Fixed Mounting Options

Fixed Mount

Fixed mounting kits include a welded mounting plate and a sealing gasket. Available in fixed angles of 0°, 5°, 10°, or 30°.

Adjustable Swivel Mount

Adjustable swivel mounting plates offer the ability to alter the angle from 0° to 40° to aim the laser to the desired location.

Adjustable Swivel Mount

Fixed Mount

FVL-100 Specifications

Ambient Operating Temperature
Standard: -22°F to 149°F (-30°C to 65°C)
Optional: -40°F to 149°F (-40°C to 65°C)

Ingress Protection
IP67

Mounting
2” NPT standard internal threaded

Measurement Frequency
Programmable typically once per hour to conserve battery

Battery Life
3 to 5 years dependent on frequency of measurement

Data Reporting
Reports energy consumption to project battery life

Environmental
Low to no-dust, non-hazardous environments

FVL-1218-PCG