

# SPL-100

# **BIN**MASTER®

## **BATTERY- POWERED LASER**

Single-Point Level  
Measurement Installs  
Without Wiring

Mount and power level sensors on silos without the expense of wiring. The SPL-100 visible red laser installs quickly through a 1.5" or 2" NPT connection. Powered by a Lithium battery, it measures solids in silos up to 98 feet tall in low or no-dust environments. It takes interval readings from once per hour to once a day with a battery life of three to five years. LoRa long range communications send measurements to the BinView web application or BinInventory software 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 98 feet in low-dust applications



**5** Easy-to-use BinView web application or BinInventory software 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.

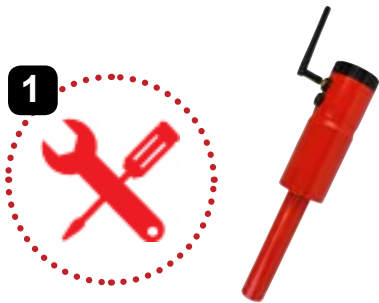
**Affordable:** Eliminate wiring a power supply to the sensor. The cost of an electrician and wiring components can often double the cost of sensor installation.

**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 BinView web application or BinInventory LAN-based software where it can be viewed on a phone, tablet, or desktop PC. Set automated high and low level alerts.

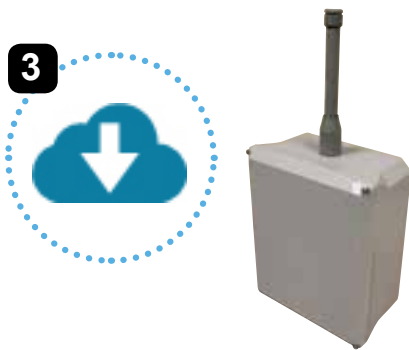
# SPL-100 Simplifies Sensoring

## Easy as 1, 2, 3 ...



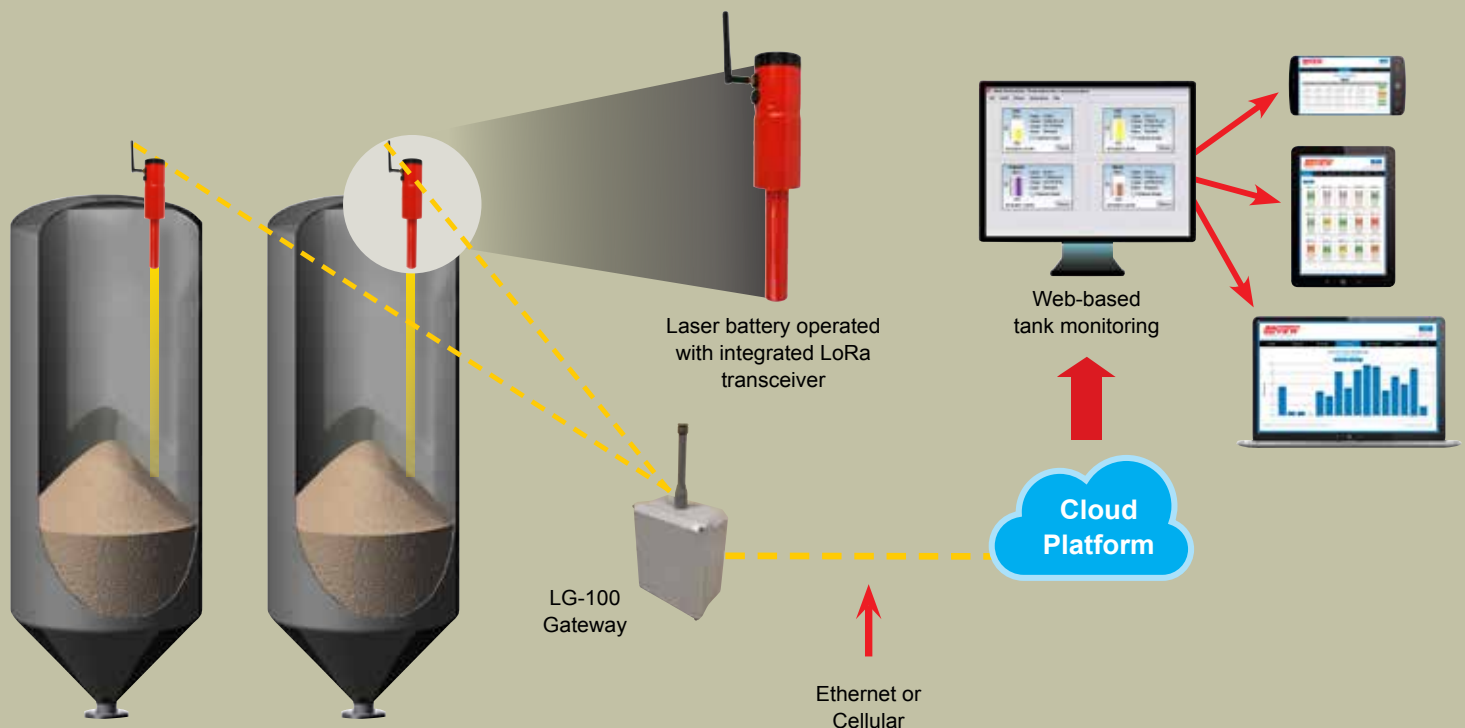
**1** **Install the Sensor:** Cut a 2.5" hole in the silo. Then, choose from an adjustable 0° to 45° swiveling mounting plate or a fixed mounting plate with 0°, 5°, 10°, or 30° angle.

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



**3** **Connect to the Cloud:** Connect the LG-100 gateway to the internet via cellular or ethernet. You are ready to access data from BinView or BinInventory.

**All set. Ready for readings!**





## Data Monitoring

Get remote monitoring via your phone, tablet, or PC and 24/7 monitoring from the BinView web application anywhere there's internet access. Alternately, use BinInventory software for LAN-based monitoring from a desktop PC. Both options provide accurate, reliable bin information 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 45° to aim the laser to the desired location.



Adjustable Swivel Mount



Fixed Mount

## SPL-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 1-2 times per day 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

SPL-1018-BLC