

# Silo Weigh Basic

## THE BUDGET-PRICED SILO INVENTORY SYSTEM

**Why measure level when you can measure the actual weight in your vessel?**

**SiloWeigh Basic** tells you the contents of any tank or vessel by measuring the actual weight of the vessel and contents to give a true picture of the amount on hand.

### Never run out of material again

The digital display shows the weight remaining – use this to reorder when low.

### Eliminate the risk of overfilling

The digital display gives ample warning when filling is going too high. However, no alarms are available on this model – if this is important, consider SiloWeigh II Pro.



### Why weight measurement is better

Level measurements can drop by 20% as the material packs; weight is unchanged. Some sensors have moving parts that can get clogged or wear out, and all level sensors require climbing for service, which has dangers. L-Strain sensors eliminate all these issues. They measure the compression in the silo leg or skirt with an accuracy of 1% to 2% in most cases, to give you results that are accurate enough for inventory purposes.

- No need to empty silo or shut down plant for installation
- Safe and easy- no need to climb silo for installation
- Reliable, no moving parts, no breakdowns
- Change in surface profile or packing down of contents does not affect reading; measurement is true weight
- Not affected by weather or extreme temperatures
- Display mounts indoors



Installation of L-Strain sensors on H-Beam silo legs using a through hole mounting kit. Almost all legs types are suitable for L-Strain sensor installation

## SYSTEM FEATURES

- Sensor kits include all parts, cables and hardware, drills and drilling jig.
- Sensors bolt onto four legs of the silo to give  $\pm 1\%$  to  $2\%$  accuracy in most cases.
- One silo to one display; run cable from silo to display in an indoor location.
- Intrinsic safety barrier available for hazardous materials.

**Scale-Tron** guarantees a successful installation with a full color manual together with the special tools and installation jigs supplied as part of the kit. Additional tips and videos are available on our website, along with free phone and Internet support.

## Sensor types

L-Strain extensometer uses metal film strain gauges to accurately measure the compression in the vessel's support structure as it is loaded. With no moving parts, it performs reliably for many years. Special temperature compensation matches it perfectly to the structure of the supports to give a stable signal even when large daily swings in temperature are present.



Load cells can be used when accuracy of  $0.1\%$  is required.

*Vessel support methods vary immensely. Our engineers are always available to advise on what is possible and what should not be attempted. We welcome your calls until you are confident in your own knowledge.*

## SYSTEM SPECIFICATIONS

<b>Vessel size:</b>	No limit, since measurement depends on stress in vessel supports.
<b>Stress range:</b>	10-100 Mpa (1500 to 15,000 lb/sq. in.). Stress calculator available to evaluate structure
<b>Support types:</b>	All leg types have been successfully applied.
<b>Units of measure:</b>	Any choice of units. English or metric tons, lb, kg etc.
<b>Power:</b>	100-250 volt universal power supply.
<b>Cabinet size, weight:</b>	3.2"x 6.8"x 2.3"deep (81 x 173 x 60 mm).

## OPTIONS

<b>Installation kits for L-Strain sensors:</b>	Through-hole (for H-beam and agricultural rolled legs. Also skirted silos with additional curved washers). Tapped hole (for square and rectangular section legs with thick walls and flat surface). Weld tabs (for round "O" section and thin wall square/rectangular section).
<b>Alarm outputs:</b>	Requires different indicator; contact factory.
<b>Analog output:</b>	Requires different indicator; contact factory.
<b>Radio WIFI connection to indicator</b>	Replaces a long cable run. Range 300 ft (100 m) line of sight.

**SCALE-TRON**  
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