

Siloweigh

By **SCALE-TRON**
Perfecting the Art of Concrete Production

A BETTER WAY TO GAUGE YOUR VESSEL CONTENTS

**Low cost, Accurate, Indoor Display . . .
and you can install it yourself!**

SiloWeigh tells you the contents of your tank or vessel - not as an empty or full signal, or even a percentage full signal based on a level measurement. **SiloWeigh** measures the actual weight of the vessel and contents to give a true picture of the amount on hand – accurate measurement for little more than the cost of a level sensor.

- ❖ Never run out of cement again.
- ❖ Eliminate the risk of overfilling and atmospheric pollution.
- ❖ Actual weight of contents in tons, plus level in percentage, on the one display.
- ❖ No need to empty vessel or shut down plant for installation.
- ❖ No structural modifications necessary, easy to install.
- ❖ Sensors bolt onto all 4 legs of vessel to give $\pm 2\%$ overall accuracy.
- ❖ Reliable, no moving parts, no breakdowns or maintenance.
- ❖ Change in surface profile or packing down of contents does not affect reading; measurement is true weight, not level.
- ❖ Not affected by weather or extreme temperatures.
- ❖ Display mounts indoors, can be hundreds of feet from vessels.
- ❖ Four optional setpoint relays or cancellable alarm outputs for each silo.
- ❖ Up to 8 vessels in the same display cabinet, unlimited vessels per plant.
- ❖ Choice of SiloWeigh bar-graphs or SiloWeigh.Net computer display with optional connection to Internet database for all vessels in all plants.



Silex bolt-on sensors use high quality metal foil strain gauges, as used in high-accuracy load cells, to give superior stability and accuracy. The sensors measure the compression in the legs as the vessel is loaded; the long length of the Silex sensor amplifies this small change in distance between the mounting points to give a stable and accurate signal.

Alternatively, SiloWeigh's "classic" weldable sensors are still available for special applications and regular load cells can be used when you want highest accuracy.



Two types of display. Choose regular **SiloWeigh** - the display cabinet can house up to eight bar-graph indicators to display up to eight vessels at the same time, or choose **SiloWeigh.Net**, the network version of SiloWeigh that puts the vessel display on the desk of everyone with a computer. Up to 26 vessel bar-graphs can be viewed on computers throughout the company's network. You see all your vessels, plus the actual weight in tons - see picture above. In addition, four types of alarm are displayed to warn of impending problems such as low level or full. Optional digital outputs can be wired to alarm lights and bells.

Scale-Tron Know-How guarantees you a painless and successful installation. Using our full color illustrated manual, together with the tools and installation jigs supplied, all you have to add is your electric drill and muscle power – or let us do everything for you, it's your choice.

- ❖ Using the diagrams in the manual, locate the best position for the sensors, or let us be your guide: send us pictures and we'll verify everything for your peace of mind.
- ❖ Remove loose paint and mark the hole positions using the jig and center punch supplied.
- ❖ Drill holes for both sensor and junction box using drill bits supplied.
- ❖ Attach sensor using bolts supplied and connect to junction box.
- ❖ Wire all sensors in daisy-chain fashion and run cable to display cabinet in convenient indoor location.
- ❖ Calibrate using weight ticket from delivery of material.
- ❖ H-section, O-section, square and L-section legs are all catered for, as well as skirted vessels. We can also accommodate special section legs such as agricultural roll-formed style; just contact us for our application advice. Round legs with diameter of 8" or less require weld-on tabs; these are supplied as a special application kit.
- ❖ Divided vessels can be displayed as separate vessel displays when using SiloWeigh.Net (not available on SiloWeigh).
- ❖ Liquid levels can also be monitored with our special liquid sensor. Bar-graphs are calibrated to read level and volume in gallons, liters etc. Liquids by volume and solids by weight can be mixed on same display cabinet.
- ❖ High-accuracy load cells can be used with SiloWeigh when extra accuracy is needed for batching and load-out applications. Note: For legal-for-trade applications, a different weight indicator is required.



Options

Isolated analog output, 4-20 mA.
 Dual form C (SPDT) & dual form A (SPST) set-point relays.
 Dual alarm output powers lamp and horn, with horn cancel button.
 NEMA-4 dust and splashproof front cover for bar graph indicator.
 Weld-on mounting tabs for "O" section legs of less than 8" diameter and other awkward applications.

SiloWeigh.Net replaces bar-graph displays by connecting to the plant area network, allowing the vessel bar graphs to be displayed on any convenient computer. In addition, multiple plants can be monitored from the Siloweigh.net internet database which displays trend graphs, alarm logs and other useful metrics via internet pages.



With 35 years of experience, who 'ya gonna call?



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