

Batch Weighing Hopper Filling Dispensing by Weight *Plug-And-Weigh*



Typical Applications

Hopper Weighing

Mixer Wagons

Poultry Feeding

Filling Shipping Containers

Filling Big Bags



Load Cells

The Griffith Elder system for filling and emptying of hoppers or smaller silos uses load cells built into the structure to measure the actual weight in the vessel.

The load cells are supplied to suit the maximum weight that will be taken on them. A range of sizes and types are available and typically shear beam load cells are used in most systems. Ranging from 1 tonne capacity to 30 tonnes capacity for each load cell, most silos can be catered for.

The Load Cells often need fittings to hold them in place and Griffith Elder will advise and supply appropriate feet, washers and top plates to make fitting of the sensors as simple as possible.

Automatic weighing

Once the load cells are fitted, there are a range of indicators to choose from to suit the particular requirements. Each indicator has been designed to make the operation of the system as easy as possible and has a clear display showing exactly what is happening.



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Indicators *Designed to be specific*

Model WT1

This indicator shows the weight in the hopper and allows the weight together with date and time to be stored in memory at the press of a button. Each record has a unique record number. A printer may be attached so that a printed copy of the record can also be taken when saving the weight.



Model WT2

The WT2 is the most popular indicator and provides an automatic control for filling of up to three ingredients into a weighing hopper, or for dispensing batches of material from the hopper.

Pre-set weights of up to three ingredients are entered by the operator. These weights are retained in the indicator's memory, even when switched off.

A normally open relay output is provided from the indicator to operate the filling equipment automatically. If set points are not required they can be set to zero, which means they will not operate.

The WT2 indicator also has an output to a large separate display so that weights can be seen from a distance. Alternatively a computer can receive the information so that control can be from a computer for switching the weighing on and off.

A printer may be attached and records can be saved and printed out, as with the WT1.



Model WT3

Some applications require one indicator with several hoppers, each with its own load cells. In this case the WT3 is the indicator to use. It has a screen that shows either the individual weight from each set of load cells or it can show the total weight from all the load cells.

A computer on-line function will allow a computer to see what is on the screen and allow a computer program to effectively press scroll to see the next result, and to save the complete record of how much is in each bin and download it. For example, for an enterprise with 7 grain bins an operator could see in real time what is in each bin on the office computer screen.

Download to computer is also available and is a separate function, not in real time. This is for the person who uses the indicator and then wants to download all the saved results as a single job.

When the WT3 is in the Total Weight mode each weight can be added to a grand total and stored in the memory. This is useful when a number of batch weights need to be stored as well a running total. Each part weight is date and time stamped.

A traffic light is an option with this indicator, that shows red when a change in weight is seen by the indicator and turns to green when the weight has been saved to memory as part of the running total.

A Large display option is available which shows what is on the screen. Each time the save key is pressed the large display shows the running total in memory for about 5 seconds.

A printer option is also available with the WT3 indicator.



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