ZM223

Fill and Discharge Systems Application

Overview

The ZM223 Indicator provides a very simple but effective weighing solution for monitoring and tracking the quantity of material held within a hopper or container, guaranteeing there is enough ingredient available to carry the next stage of the process.

Installing a ZM223 and simple weight sensors under each hopperor storage tank can provide you with valuable weight information needed to keep your process running smoothly.

Key benefits

Stock monitoring and control in any filling, batching or recipe process is essential to ensure there is enough ingredients to fill a recipe step or process being performed.

Automated process control is perfect for streamlining your process and removing human error. Utilizing the ZM223 outputs and fill/discharge software to control the fill & discharge gates ensures there is enough of the ingredients in the hopper or tank prior to the discharge gate opening.

When more advanced automated weight processes are required, the ZM223 can easily link up to a **wide range of PLCs** to provide fast, accurate weighing solutions.

Auto preacts smart automated weight adjustment can provide repeatable discharge weight accuracy each and every time.

Application Features

Setpoint Flexibility

The ZM223 comes standard with six onboard logic setpoints that can be easily programmed to be either inputs or outputs depending on how the filling or discharge process needs to be controlled.

This can also be used to add or mix several ingredients together prior to moving to the next phase of the process.

The ZM223 can also be linked to a PLC for more advanced filling and discharge process steps.

Keep Target Weight Accurate with Inflight Compensation

Inflight compensation (Preact) can also be enabled to help remove any unwanted overfills. This overfill occurs after the hopper gate has been closed. This extra freefall material gets deposited into the container once that hopper fill gate has been closed.

By using the Inflight compensation (Preact) this quickly works out what that overfill was and automatically compensates on next fill by turning off the hopper gate sooner.

Inflight compensation automatically keeps adjusting the fill weights to keep the weigh as close to the target weight as possible. Ideal when hopper tank quantities fluctuate from a full state to close to empty state. Auto Preact constantly reacts to these changes in flow pressure to continue to auto compensate the weights to deliver repeatable accurate target weights each and every time.

Fill / Discharge Software

Simple automation fill/dispense steps can be set up to control a hopper or tank fill levels prior to the next process step starting. Automated steps can be easily implemented to automatically keep the tank or hopper to a set level before any discharging step starts. If setup correctly, this simple fill/discharge software can improve faster through put, remove human error while delivering a consistent batch quantity each and every time.

Operator Control

Designed to be simple to use by the operator. A dedicated key can be set up to represent start and stop. The backlight can be set to GREEN to indicate when a process is running and RED if the process is in the stopped state.

Setpoint targets can easily be viewed and adjusted by the operator from the indicator front panel or directly from the Avery Weigh-Tronix Remote Assist™ Mobile App.

Mobile App Control

The ZM223 comes standard with Bluetooth® and Avery Weigh-Tronix Remote Assist™ Mobile App that can be used for fast access/editing of the printable data. The Remote Assist™ Mobile App provides access to a list of UDF fields that are held within the ZM223. Fields like:

Product
Part number
Invoice number
Date code
Batch number
Customers name
Addresses
Other

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