

SIWAREX Weighing Technology

Application Batch System SIWAREX M with S7-300

SIWAREX M application

Batch Systems in the Chip Industry.

The various raw materials necessary for the chip industry process are often supplied in a highly concentrated form.

They are mixed into the required very exact concentrations on site. The SIWAREX M electronic weighing system is used to meet these specifications. This is integrated in the SIMATIC S7-300 process control system.

JONWEB TECHNOLOGY



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Your Success is Our Goal

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Structure

The mixing tank stands on a platform with 3 SIWAREX RN load cells.

The appropriate recipe is read in at the mixing system control panel and stored in the S7 300 CPU 316-2. The number of components depends on the respective process requirements. As a rule these are 2 to 7 component systems with coarse and fine proportioning.

The mixing system then waits for a request from the day tank. This is given when the level drops below a certain remaining amount. Now a new batch is started. The different components stored in the recipe are proportioned one after another by SIWAREX M. Thanks to the skilful order of proportioning and adaptation of the nominal to the already proportioned actual values the proportioning is automatically optimized to achieve the best possible results.

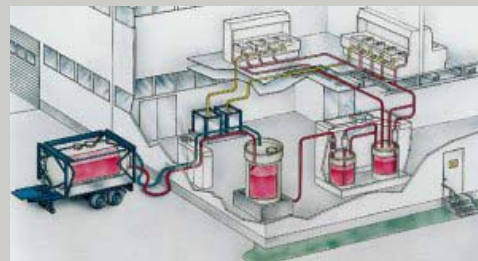
SIMATIC turns SIWAREX from a one-component scales into a multi-component recipe proportioning system here.

When the recipe is finished the mixed concentration is checked prior to being released by online analysis which is also connected to the process control. After releasing the mixture the chemical is pumped into the day tank.

The batch log is either printed out or saved in an archive in the host system.

SIEMENS

Solutions and Services



Chemical mixing and supply system and principle of the chemical supplies company Merck

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01/2003
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