Analysis Measurement

Regulation of separators

Press Briefing

GEA brewpub Separator-Skid

Application and process description:

The control or regulation of a separator can be done with full automation using quick and exact turbidity determination by means of a sensor. Depending on the medium to be measured and its concentrations, the STS series compact sensors are used.

Separators are used in a multitude of industries and applications. They are thus used not only in separation processes in the processing industry and environmental technology, by also in the food and beverages industry. In milk processing, the raw milk delivered is broken down into its component parts immediately after delivery using a separator and is then later recombined in a standardised manner. For fully automated operation of the separation process, a sensor of the STS series is installed both at the inlet and the outlet of the separator.

There are various possibilities and combinations for the control and/or regulation of a separator depending on the product. Automatic discharge from the separator is made possible by monitoring of the turbidity at the outlet. Through monitoring of the inlet, the production flow can be circulated in the event of high turbidity in order to prevent the separator from becoming clogged. In the event of turbidity monitoring in a bypass process, medium is specifically added to the previously clarified product in order to achieve a constant turbidity level or a defined product concentration, for example. Here, turbidity monitoring is done directly in the product and in real time, without the need for samples to be taken and laborious laboratory tests to be carried out.

Products used and their areas of application:

The absorption sensors STS01/-03/-13 and the STS 15 backscatter sensor are compact NIR sensors for monitoring production processes in a large number of applications in food processing and the processing industry. All STS sensors have a robust stainless steel housing with integrated analysis technologies and display.

Areas of application for the STS series

» Colour-independent concentration measurements
» Control of separators
» Safe phase separation
» Monitoring changes of product
» Monitoring of contamination in hot and cooling circuits

Products – Manufacturer

Precision and Perfection.

Innovative Automation

Do you have a vision, from that should become more? We are looking forward to the Challenge!

Hygienic

Analysis Measurement

Our pressure transmitters for aseptic applications have an extreme accuracy and meet the high demands on hygienic production processes, especially for the Food Industry There are usually aseptic measuring points and these are typically programmable on the device on PC.

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