



Application Report: TS-measurement after disperser

The advantage of the microwave measurement is the direct measurement of the process flow. By this method the concentration gradient of the product is evaluated between the sensors thus the real process is measured with a representative high accuracy.

The measurement of the TS-content is an important parameter for determining the consistency in the thickener and also between the disperser to the refiner. An exact measurement of the density allows here a very precise water addition and is reaching an accuracy of up to $\pm 0,2\%$ TS directly in the main pipeline.

The microwave sensor is wearless, that means after the installation of the microwave sensors in the pipe section no additional maintenance is necessary. Further, with proMtec the installation of a bypass has become redundant and process disturbances caused by clogging of the bypass measurement are excluded.



The contactless measurement consists of the two flat sensors, which are used in a pipe, a microwave module and the evaluation unit.

Moreover the measurement has a temperature compensation with a special temperature sensor.

The measurement is carefully calibrated to the particular product by using laboratory samples and therefore achieves very high accuracy.

