



Level



Pressure



Flow



Temperature



Liquid Analysis



Registration



Systems Components



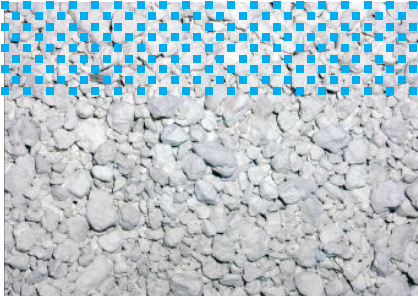
Services



Solutions

Levelflex M FMP40 in Limestone Silo- Power

Levelflex M FMP40 allows utility to provide accurate limestone level measurement



Limestone



Levelflex M FMP40



Powerplant

Levelflex M FMP40 allows utility to provide accurate limestone level measurement and reduces replacement, saving the customer money.

Company profile

Utility located in northwest Indiana.

Previous instrument

The original level measurement method in the limestone silo was a yoyo, which uses a weighted tape on a timer. Measurements were taken at timed intervals. Typical problems with this type of measurement were with the gears, motor, tape etc. and it was very high maintenance. The second method was a two cable TDR system, but there were problems with the cables twisting and on several occasions breaking.

Solution

Endress+Hauser recommended the Levelflex M FMP40.

Application description

Endress+Hauser installed the Levelflex M FMP40 with an application warrantee for the first year using the product. The instrument is in place and working today. The Levelflex is installed on a 40-60 ft tall bin with limited access through a ladder. The instrument was chosen because of its' high reliability, making less trips to check the level on the tall bin.

Instrument description

The Levelflex M is a top-mounted, compact level transmitter that operates with micro-impulse radar on the guided time-of-flight principle. Fluctuations in the density, temperature, or build-up do not influence the measurement.

Measuring principle

The Levelflex is a "downward-looking" Time-of-Flight (ToF) measuring system which measures the distance from the process connection to the material surface. An electrical pulse is launched and guided down the probe. The pulses are reflected by the product surface, received by the electronics, evaluated and converted into level information.

Result

The customer reports that the Levelflex M FMP40 has benefited the utility by providing reliable, accurate measurement in the limestone silo. The customer also utilizes the feature which allows them to track usage vs. kilowatt production. The utility has also been able to maintain adequate levels of limestone and reduce the number of emergency replacement orders for this material, saving them a significant amount of down time and money.

The utility has Levelflex in their fly ash silos, and is considering the TMT162 for their temperature applications. They have also installed a Promass F on back-up fuel supply, and are currently under testing and evaluating pH measurement on waste treatment.

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