App.Note/LM80-Salt App-ENG.Rev.A

LM80 Laser Level Transmitter
Salt Industry Application

Measurement made easy

The LM80 Laser level transmitter has been applied successfully at a salt plant in the Midwest of the United Sates. The application involves measurement of salt in pellet form. The customer had previously tried to use ultrasonic and radar transmitters unsuccessfully in the application.

In this particular application the bins have support beams that caused the ultrasonic and radar signal to detect the beams instead of the product after the bin was 30% empty. As a result 70% of the bin measurement was not accurate. Additionally the bin filled with a peak in the middle and emptied with slump in the middle. Even in the area with no metal beams this “Peaking and Slumping” caused poor performance from the ultrasonic and radar transmitters.

An LM80 was mounted on top of the bin and aimed to avoid the metal supports. The narrow width of the laser beam allowed for positioning the laser beam between the metal supports. The results were excellent, the LM80 responded with the correct measurement, verified with a tape measure. Dust density was not an issue for the LM80 in the pellet application however measuring salt when it is fine can sometimes present a problem due to high dust levels. For those applications where dust becomes too thick ABB Guided Wave Impulse Radar transmitters positioned to avoid the metal supports can be used.

Should you have any question about Salt Applications, please do not hesitate to contact PMU Quebec Team at laserscanner.**support@ca.abb.com.**

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