



Level



Pressure



Flow



Temperature



Liquid
Analysis



Registration



Systems
Components



Services



Solutions

FMR250 Radar Level Measurement in Dog and Cat Food Storage Silo- Food

Micropilot M - FMR250 solids radar provides excellent measurement on finished dog and cat food



Dog food provides nutrition for your pet



Micropilot M FMR250



High protein dog food

Micropilot M – FMR250 was tested on a high silo with dog and cat food pellets. It was mounted on the silo to measure the storage level before the pellets are transported into the feeding hoppers for the filling machines.

Customer profile

The instrument user is a producer of animal food in Tennessee. It is one of the leading dry dog and cat food producers in the USA, with multiple production locations.

Application description

The FMR250 radar unit is used to measure the level of dog and cat food in their respective silos to determine if more production is required to produce the quantity for the day or needed batch.

- fodder concentrate pellets
- bulk density: 32 lb/ft³ (500 g/l)
- shape: round shaped pellets
- temperature: 140°F (60°C)
- dry and a bit dusty

Application challenges

- abrasive material
- dusty during filling

Previous instrument

- Two paddle switches

Instrument used

FMR250 with parabolic antenna and extension

Instrument description

The Micropilot M FMR250 is a 2-wire high frequency non-intrusive radar level device for solids applications in tanks or silos up to 230 feet.

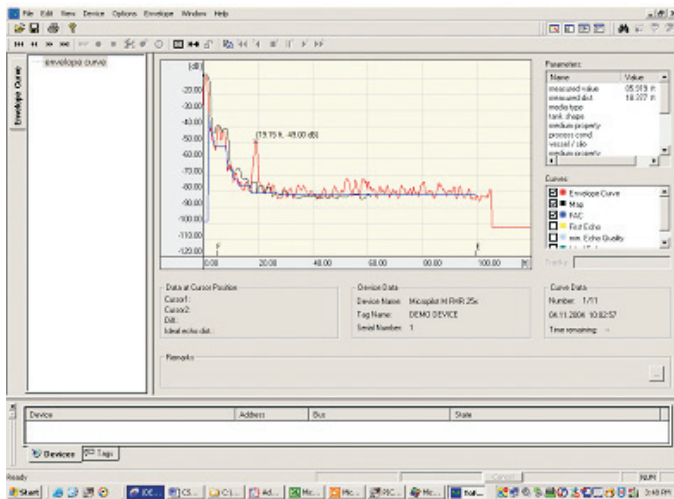
Measuring principle

A high frequency electromagnetic wave is launched from an antenna. Some of the signal energy is reflected by the product and received by the antenna. The time it took for the signal to travel to the level and reflect back to the antenna is measured. This time is then calculated into a level related to 4 to 20 mA output signal.

For more information, contact
Endress+Hauser, Inc.
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Simple set up and commissioning using lap top and ToF Tool



ToF Tool printout of the measuring signal

ISO 9001:2000 Certified

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