

## Continuous Level Measurement of Powdered Milk

### The Application

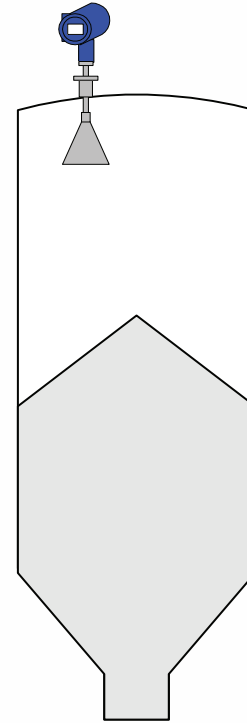
Milk from large dairy farms is processed and converted into powdered milk for ease of shipment. The powdered milk is stored in large silos, typically 35 ft. to 60 ft. high. The measurement is important for inventory control and indication of when the silos should be emptied.

### The Problem

Traditional "Ultrasonic" measurements only gave level indication in the smallest silos and did not provide reliability in the dusty atmosphere during filling and emptying. In many cases, the silos needed to be manually sounded with rope and weight. This proved to be a problem as the FDA inspectors, who visit frequently, are very critical of any contact form of level measurement. Compliance with the FDA motivated the end user to eliminate any device that may be considered non-sanitary by the FDA inspectors.

### The Solution

AMETEK Drexelbrook installed a DR7000 continuous level transmitter with a DN80 Horn with extension on a Sanitary Triclover fitting. The DR7000 uses 24-26 GHz FMCW Radar technology to make a continuous level measurement regardless of dust, vapors, moisture content or moisture variations of the low dielectric powdered product. The DR7000 is now providing reliable non-contact, sanitary continuous measurement of the powdered milk level in the tallest silos.



**Powdered Milk Storage Silo**

### Benefits

- Easy set-up with only basic menu driven user configuration.
- Saves money through reduced downtime.
- Process and inventory management are more efficient.

### Other solutions:

- High or Low Level Powders
- Evaporators

### Typical Uses:

- Continuous Level
- Point Level
- Waste Management
- Inventory Management
- Overfill Protection
- Regulatory Compliance

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