

Promag 53H in Poultry Producer- Food

Mag meters used to measure chemicals for water quality in chicken waste bins



Promag 53H installations



Promag 53H



Baby chicks

Promag 53H Electromagnetic meter reduce chemical usage saving the customer money

Company profile

Poultry producer located in Decatur, Georgia

Previous instrument

The customer had been using a competitor's ultrasonic radar to measure the height of waste which was not working.

Solution

Promag 53H Electromagnetic Meter

Application description

The water quality was measured using flow meters to inject coagulant into chicken waste bins. Turbidity analyzers measure clarity of the water, 3 flow meters inject chemicals to keep water within regulations

Instrument description

The Promag H electromagnetic flow meter is specifically designed for sanitary applications. Promag H was designed according to specifications and recommendations from the Food and Drug Administration (FDA) and the European Hygienic Equipment Design Group (EHEDG). In addition, the meter meets 3-A standards.

All wetted parts of the Promag H are transfer-molded PFA and stainless steel. Its ability to be cleaned in place using hot cleaning fluid or steam at temperatures up to 300°F distinguishes the Promag H from the competition.

The PFA molded liner protects against separation that can occur between the meter liner and the flow tube when temperatures quickly vary from hot to cold. With the PFA liner, no cracks will occur, as is often seen with ceramic liners when temperature fluctuations are present. The Promag H is designed to fit the specific dimensions of the sanitary tubing standards found in the food industry and can be inserted directly into the milk pipe. With the Endress+Hauser magmeter, there are no dead spaces where bacterial buildup could occur.

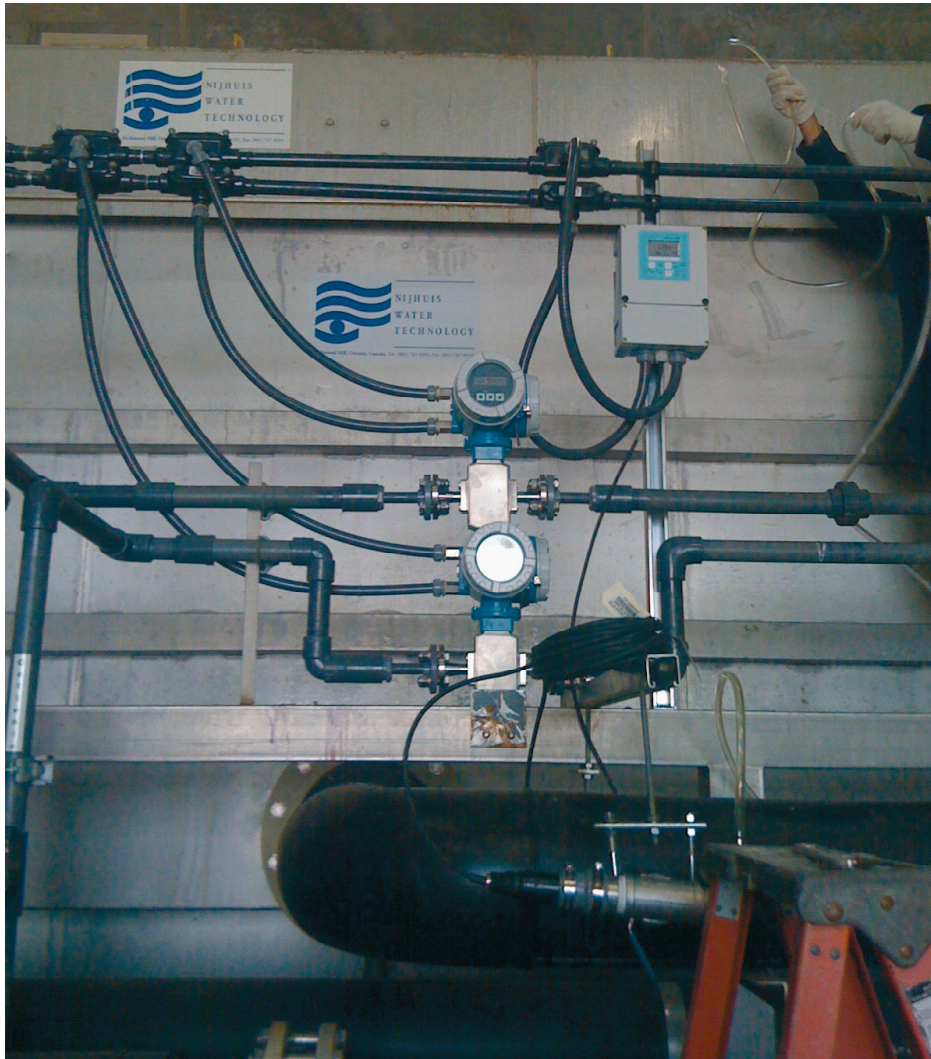
Measurement principle

The Promag H operates using Faraday's law of induction which states that a voltage is induced in a conductor moving in a magnetic field. The flowing medium is the moving conductor. The induced voltage is proportional to the flow velocity and is detected by two measuring electrodes and transmitted to the amplifier. Flow volume is computed on the basis of the pipe's diameter. The constant magnetic field is generated by a switched direct current of alternating polarity.

Result

The poultry producer can now use less chemicals because they are accurately metered. The sewage discharge from the plant now meets city regulations as well.

For more information, contact
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Mag meter installation at poultry producer

ISO 9001:2000 Certified

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