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Literature and Specifications available at:
www.andinst.com

Product

“HT” Optical Sensor

Industry

Dairy Processing

Benefits

- ▶ Reduced Product Losses
- ▶ Reduced Sewer Charges
- ▶ Reduced BOD Surcharges
- ▶ Fast Return on Investment

Application

- ▶ Before and After Pasteurizers
- ▶ HTST Systems
- ▶ Before Fillers
- ▶ CIP Return
- ▶ Filtration
- ▶ Wastewater lines
- ▶ Interface Detection
 - ▶ Product → Product (i.e. 1% to whole milk)
 - ▶ Product → Water

Existing Technology

- ▶ Timers
- ▶ Sight Glasses

Reduce Product Losses and BOD Surcharges in Dairy Processing Facilities

Product Application Note

A common concern facing Dairy Processing Facilities is the amount of product that is lost in the production process. When these product losses occur they impact the bottom line of a Dairy Processing Facility in two ways: Reduced profits due to the product lost (also known as “shrinkage”), and higher operational costs due to the surcharges that local sewer municipalities charge the plant for handling the organic waste that was formerly product. This sewer surcharge is usually expressed as the Biological Oxygen Demand (BOD) component of a plants sewer bill. Sewer municipalities charge more for this type of organic waste because of the dissolved organic solids that require additional waste treatment processing by the sewer treatment facility.

Anderson’s “HT” Optical Transition Sensor allows Dairy Processors to reduce their product losses and subsequent BOD Sewer charges by providing a precise measurement of the amount of dissolved solids in the fluid stream. Many Dairy Processing Facilities have successfully implemented in-line, real time monitoring to achieve reduced levels of discharge by diverting high-level BOD waste to recovery tanks or field spread holding tanks, saving many thousands of dollars in municipal sewer surcharges. Anderson Instrument Company’s “HT” Optical Transition Sensor monitors BOD through NIR Absorption technology. This technology allows for precise measuring and monitoring of the process based on the amount of fat cells in the fluid milk stream. This technology is uninfluenced by caustic solutions or even color changes, for a precise and repeatable diversion point each time.

This unique technology has been proven in numerous plants around the world to save thousands of dollars in reduced BOD charges and reduced product losses. The Return on Investment (ROI) is typically within three months after installation and integration.

For more information please contact your local Authorized Anderson Instrument Company Distributor or your Anderson Regional Sales Manager.

