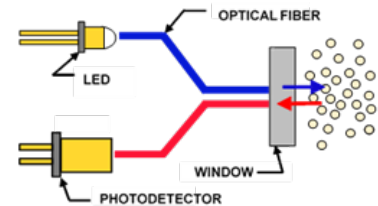


FiberView™ Dairy Waste Sensor

- ❖ **Reduces plant losses and increases yield and profit**
- ❖ **Isolates operations with high loss**
- ❖ **Allows quick response to loss events**
- ❖ **Operators become more sensitive to losses**
- ❖ **High Sensitivity: measures 0 to 1% solids**
- ❖ **Uses blue light (470 nm) that responds to both casein and milk fat**
- ❖ **All Stainless-Steel construction**
- ❖ **Easy calibration**
- ❖ **Installs in effluent drains**
- ❖ **Custom stem lengths available**

FiberView Dairy Waste Sensor reduces the Biochemical Oxygen Demand (BOD) and sewage costs from improved operations practice. Less milk loss means reduced product shrinkage, lower costs, higher yields, and higher profits. The FiberView DWS enables the occurrence and concentration of the discharge to be determined. It monitors solids concentration in dairy plant effluents in the range of 0 to 1% solids (or higher). It has a quick response to loss events and provides time to take corrective actions. Operators become sensitive to losses.

The FiberView DWS measures light backscatter using optical fibers as shown in the following sketch:



The FiberView DWS can be configured with an Anderson AJ-300 circular chart recorder. This provides a visual record of effluent solids concentration vs. time and alarm features. See the Reflectronics web site for more details.

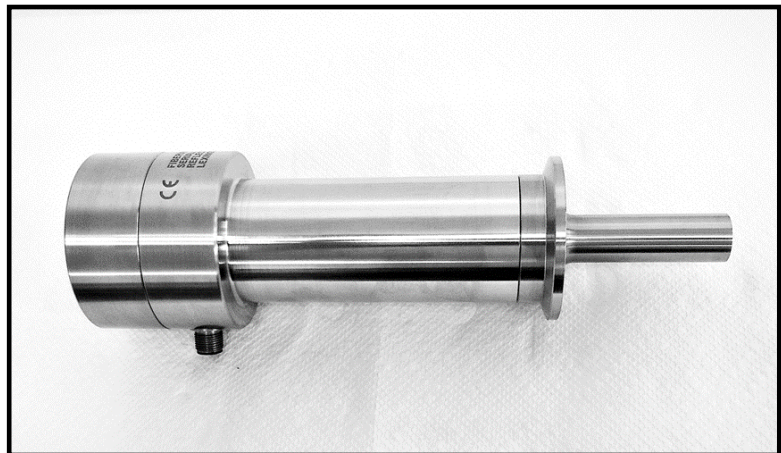


Fig. 1. FiberView™ Dairy Waste Sensor with 2.5" stem length and 2" Tri-Clamp connection.

Dairy Waste Sensor Technical Specifications

❖ Standard Compliance:	NEMA 4X (water tight, corrosion resistant); <ul style="list-style-type: none"> • CE Mark Verified Class A under EN 61326-1 • CE Mark Safety EN 61010-1
❖ Sensor O-Ring:	Viton
❖ Sensor housing:	316 SS
❖ Window	Sapphire
❖ LED wavelength:	470 nm standard (880 nm optional)
❖ Output signal:	4-20 mA with analog zero and span calibration
❖ Cable:	Quick disconnect, water tight
❖ Operating Temperature Limits:	Head, 60 °C; Probe, 100 °C
❖ Connections:	2" Tri-Clamp
❖ Required Power Supply:	24 VDC, 100 mA max., low noise.
❖ Signal/Noise Ratio:	> 1300 @ 4mA
❖ Detection Sensitivity:	Full scale for 0 to 10% milk in water
❖ Serial and Model Number:	Etched onto SS (SN plus mfg. yr-mo-day; 123-20180508)

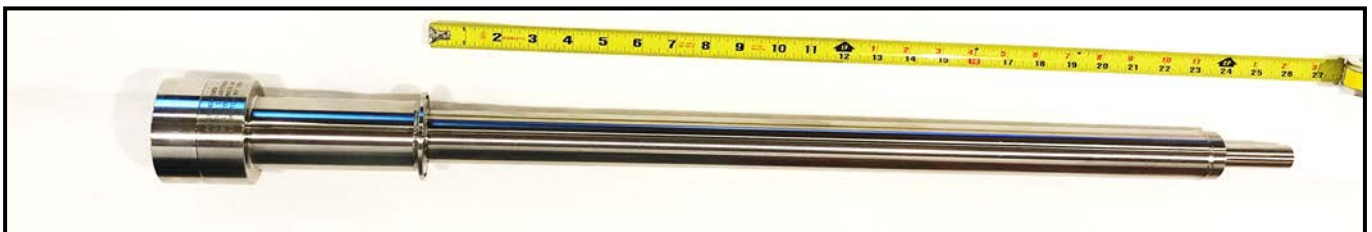


Fig. 2. FiberView™ Dairy Waste Sensor with 24" stem length and 2" Tri-Clamp connection.

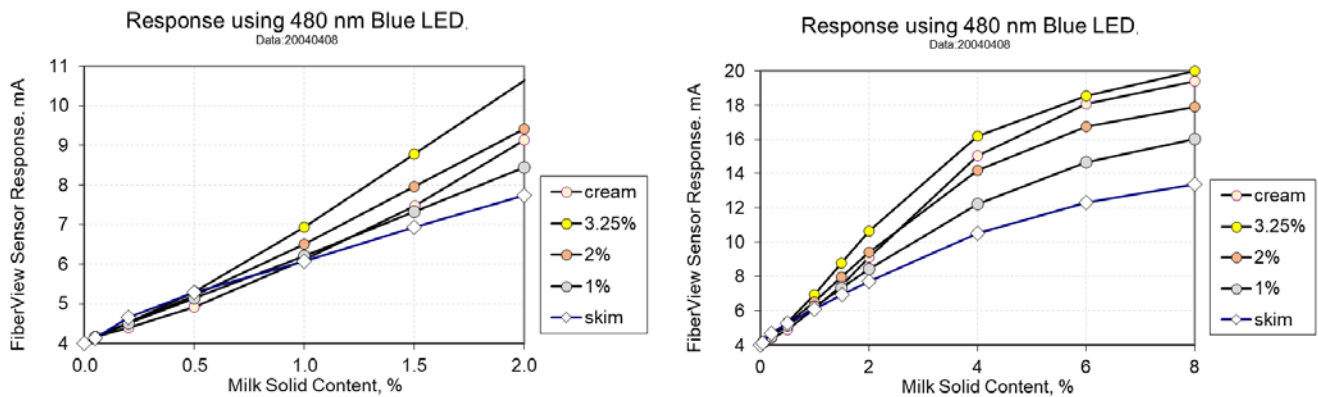


Fig. 3. FiberView™ Dairy Waste Sensor response with a 480 nm blue LED for milk products diluted in water.