



## AW FLOW METERS

# ProScan™ In-Line Process Sensor



### Technical Specifications:

- Monitors turbidity and product concentration
- 4-20 mA output
- Detects phase transitions
- Registered with 3-A Sanitary Standards
- NEMA 6/ IP67 enclosure
- Sanitary clamp connections
- 316L Stainless steel construction
- Sapphire lens

### **What is a ProScan In-line Process Sensor?**

ProScan is an in-line optical sensor that uses NIR technology to accurately and instantly detect product transitions, monitor turbidity and measure product concentrations at all stages of your liquid process. Utilizing advanced optical technology, ProScan sends a beam of light into the process and measures the backscatter. The intensity of this scatter is proportional to solids concentration. ProScan's internal microprocessor converts this scatter to a linearized 4-20 mA output which can easily link to a PLC, DCS or data logger. ProScan acts as an eye in your process to allow real-time process control and help improve product quality, improve automation, reduce BOD charges, reduce shrinkage and reduce water and utility charges. ProScan has a history of successful use with over 100 leading companies in North America, including applications in dairy, brewing, meat and juice processing. ProScan is registered with 3-A Sanitary Standards and features a sapphire lens and 316 stainless steel body.



## AW FLOW METERS

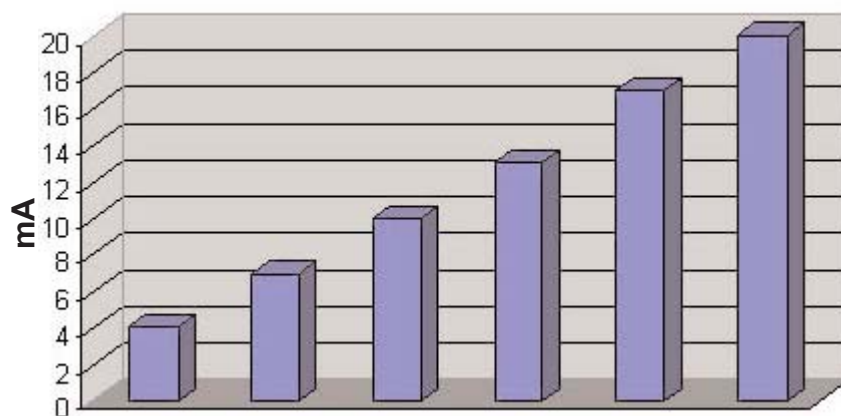
# ProScan™ In-Line Process Sensor

### Sensor Technical Data

<b>Body &amp; Connector:</b>	316L Stainless Steel
<b>Optical Lens:</b>	Sapphire
<b>Lens Seal:</b>	FDA approved silicone rubber
<b>Process Connections:</b>	1 1/2", 2", 2 1/2" or 3" Sanitary Clamp
<b>Output:</b>	4-20 mA
<b>Power Consumption:</b>	0.45 Watts
<b>Supply Voltage:</b>	15-24 VDC
<b>Temperature Rating:</b>	32 ° to 212° F Constant 32 ° to 300° F Intermittent
<b>Enclosure Protection:</b>	NEMA 6/ IP67



### Typical ProScan Response with Fluid Milk Products



Products may be subject to change without notice - Contact factory for current information

Utilizing advanced optical and microprocessor technology, ProScan produces a linearized 4-20 mA output that can be tailored to a virtually limitless range of applications. The sensor attaches directly to the process line and allows real-time, in-line analysis of fluid streams. The sapphire lens and 316 stainless steel construction will withstand the high temperatures, rapid temperature fluctuations and chemical agents typical in food and pharmaceutical processes. The simple design allows plant personnel to install, tune and maintain it with ease.

### Don't Let Your Profits Go Down The Drain

ProScan acts as an eye in your process to provide critical information for process control. ProScan can be installed virtually anywhere in the production or waste stream where it is important to detect process interfaces, monitor turbidity or measure product concentrations. In pasteurizer lines, a popular installation site is downstream of the HTST. The ProScan signal can be used to switch valves and direct the liquid stream to the filler, recirculate it or divert to drain. ProScan is also a valuable tool to control CIP prerinse cycles and maximize product recovery. The simple NIR sensor helps processors recover as much product as possible before initiating cleaning and helps to ensure expensive chemicals are added at the appropriate time. Further, by monitoring the solids level and turbidity of the process, ProScan can help determine if the fluid should be added to product recovery tanks or sent to the drain. In addition, ProScan can act as an excellent monitor of BOD loading on waste lines. From receiving lines to pasteurizing lines to filling lines to waste lines, ProScan offers an economical solution to your process control needs.