

Low range turbidity monitoring after reverse osmosis

Application

Install a VOD at the reverse osmosis polisher outlet to monitor turbidity associated with suspended particles. Permeate turbidity is normally low during production. A rising optical signal can indicate a change requiring investigation.

Measurement and control

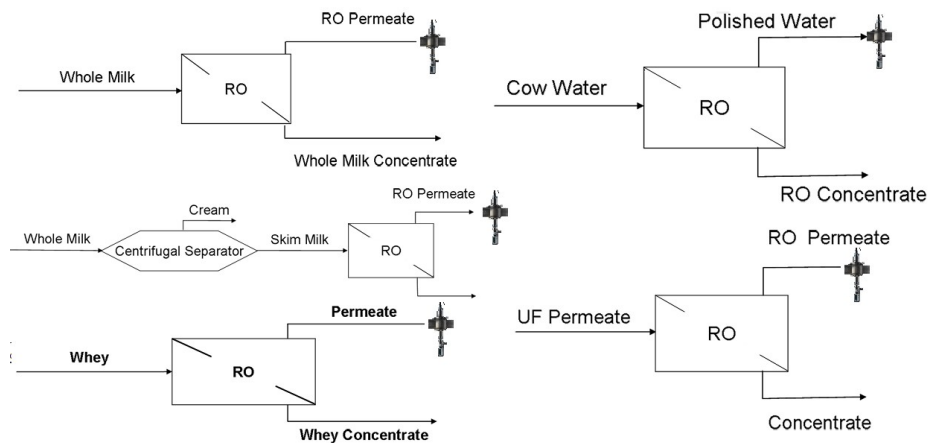
The VOD monitors changes in the RO permeate stream. Its continuous 4-20 mA signal connects to the PLC for trend monitoring and configured control actions. A 3- or 4-inch pipe provides a longer optical path to support low-range sensitivity. A blue light source can increase sensitivity for the application described.



SATRON VOD

Features and application details

- Relying on turbidity to check RO system functioning
- Configurable calibration ranges with push buttons on Display or HART communicator or laptop.
- Measurement history
- Integrated USB port
- Long-life LED with automatic compensation, UV, Blue, NIR...
- Tri-clamp process fitting
- Turbidity range 0-20-50-1500 NTU customizable



RO and permeate monitoring arrangements