

COW water monitoring at a 5 NTU threshold

Application

Condensate of whey can be reused when the required water quality conditions are met. An absorption sensor monitors turbidity to detect changes associated with suspended material. This application uses a 5 NTU diversion threshold.

Measurement and control

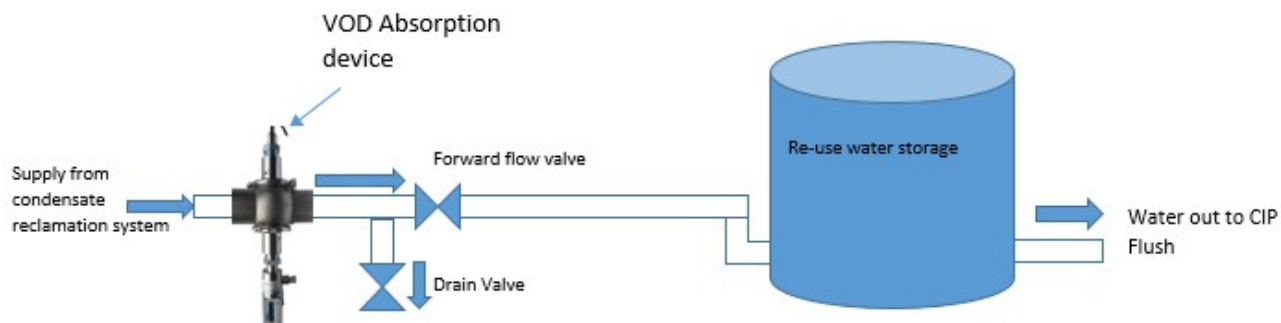
A VOD monitors the 0-10 NTU range in a 3- or 4-inch pipe. The larger optical path supports low-range measurement. At 5 NTU, the controls divert flow to another tank to help protect the stored water from contamination. The sensor continuously sends a 4-20 mA turbidity signal. Display options include local, remote and no-display versions. A dedicated pipe section and a 3-A certified option are specified. Factory calibration or user calibration can be used.



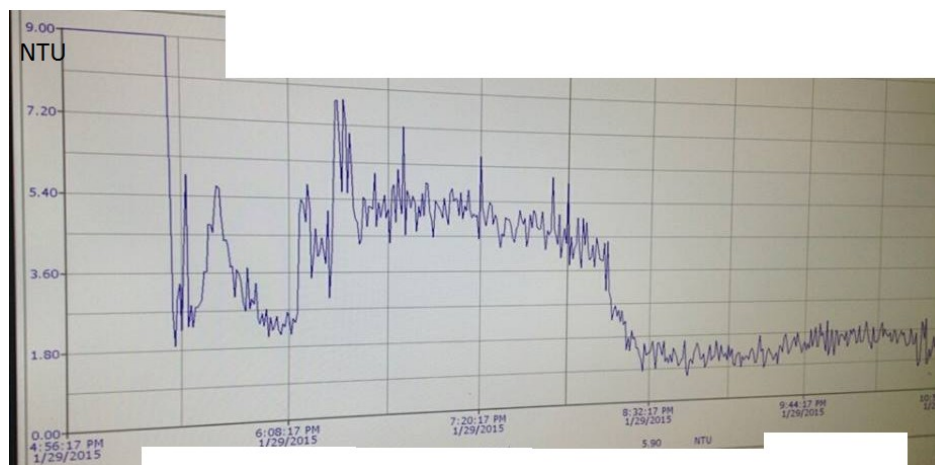
SATRON VOD configuration

Features and application details

- 5 NTU accurate measurement with large pipe diameter.
- Configurable calibration range with push buttons on Display or HART communicator or laptop.
- Measurement history
- 4 recipes available with up to 16 calibration points each
- Integrated USB port
- Long-life LED with automatic compensation
- Multiple wavelength options, including UV
- Display options: No display, local display or remote display



COW water monitoring and diversion arrangement



COW water turbidity trend