



Royce Water Technologies

TurbiTech^{w2} HR

High Range Suspended Solids Sensor

The TurbiTech^{w2} HR Sensor has been specifically designed for use in wastewater treatment systems where high levels of suspended solids are desirable in the aeration phase. Membrane Batch reactors typically run with MLSS values in the region of 8,000 to 14,000 mg/l. MLSS concentrations promote numerous process benefits, including stable operation, complete nitrification, and reduced biosolids production reducing biological volume requirements (and associated footprint) to only 20-30 percent of conventional processes. Further, the membrane tanks provide extremely space efficient solids separation and do not require a clarifier in the system.

The TurbiTech^{w2} HR Sensor is suitable for monitoring solids in higher ranges than the standard LA version of the sensor due to it's shorter path length. The large optical surface and sample volume combine to ensure that the sensor is providing information that is reliable and representative of the solids present in the process. Deposits of fats and grease on the sensing area do not prevent the sensor from measuring unlike sensors with small optical surfaces.



Benefits

- ◆ Automated Aeration Control
- ◆ Low Cost of Ownership

Features:

- ◆ Fully automatic Self Cleaning
- ◆ Flexible Mounting System
- ◆ Large Optical Surface

Applications:

- ◆ Membrane Batch Reactors
- ◆ Mixed Liquor
- ◆ Returned Activated Sludge

TurbiTech^{w2} LA

Medium Range Suspended Solids Sensor

The TurbiTech^{w2} LA Sensor has been designed for use in aeration systems monitoring suspended solids also known as mixed liquor suspended solids or activated sludge where solids are typically in the range of 1,500 to 3,500mg/l.

The sensor can also measure Returned Activated Sludge (RAS), Surplus Activated Sludge (SAS) and suspended solids turbidity. The fully automatic self cleaning system that manual intervention on routine is not required.

Benefits & Features:

- ◆ Same as TurbiTech^{w2} HR

Applications:

- ◆ Mixed Liquor
- ◆ Aeration Basin
- ◆ Oxidation Ditch
- ◆ Returned Activated Sludge
- ◆ Surplus Activated Sludge

