ASP-Con







The ASP-CON provides continuous data to maximize the efficiency of your activated sludge plant.

The many automated processes performed by a single ASP-CON replace time-consuming and sporadic collection and analysis of grab-samples.

Built-in communication capabilities can directly control processing, or channel data to your control system for previously unattainable processing efficiency.

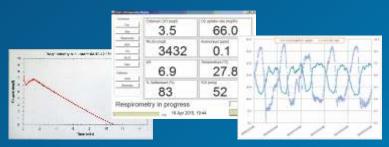
COMPLETE SLUDGE PLANT

CONTROL

Like having your best operator on-hand 24/7.

The Activated Sludge Plant Controller, (ASP-Con) provides continuous process analysis for unprecedented process control in aerobic wastewater treatment.

ACTIVATED SLUDGE PLANT CONTROL



ASP-CON TECHNICAL SPECIFICATIONS

Self-Cleaning / Self Calibrating Multi-Sensor

Weight

Stand alone apparatus......~30 lbs Mounting bracket~35 lbs

Operating Temp range

Dissolved Oxygen - LDO

Two sensors for simultaneous respirometry and D.O.
Range: ... 0 - 100% Saturation
Response, Respirometer ... T90 = 15 seconds
Response, In-Basin ... T90 = 120 seconds

Ammonium (Single ISE electrode)

 Range:
 0 - 100mg/L

 Response:
 T90 = 50 seconds

Potassium (Single ISE electrode)

Range: 0 - 50mg/L
Response: T90 = 50 seconds

Nitrate (alternative to ammonium)

Solids Measurement Sensor

Transmitted and Reflected light sensor

 Range:
 0 - 24,000 mg/L

 Response:
 T90 = 0.2 seconds

pH Measurement (Single Glass)

ORP (alternative to pH electrode)

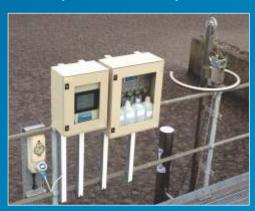
 Range
 -500 to +500

 Response
 T90 60 seconds

External communications

- ▲ Dual PID loop controller in Display unit with two 4-20mA outputs
- ▲ RS485
- ▲ Zigbee wireless
- ▲ Modbus protocol

See a working ASP-Con tinyurl.com/aspcon



MEASUREMENT CAPABILITY

- ▲ Ammonium or Nitrate
- ▲ Dissolved Oxygen
- ▲ Solids MLSS
- ▲ Settlement Test
- ▲ SVI / SSVI of settlement test
- ▲ TSS of settlement supernatant
- ▲ Oxygen Uptake Rate
- ▲ Specific Oxygen Uptake Rate
- ▲ Carbonaceous bacteria % and health
- ▲ Nitrification bacteria % and health
- ▲ Critical Carbonaceous DO
- ▲ Critical Nitrification DO
- ▲ Potassium
- ▲ pH or ORP
- ▲ Toxicity

OPERATOR SELECTABLE VARIABLES

- ▲ Settlement test frequency
- ▲ OUR / SOUR test frequency
- ▲ Toxicity check frequency
- ▲ Cleaning frequency
- ▲ DO Calibration frequency
- ▲ ISE electrode calibration frequency
- ▲ Sludge health test frequency
- ▲ % Nitrification frequency
- ▲ Critical Carbon DO frequency
- ▲ Critical Nitrification DO frequency



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