WTW IQ Sensor Net - FAQ and Answers

Q1. Can Alyza PO4 and NH4 run with seawater?
A: Technically, yes it's possible. But there is no seawater filtration available and the housing unit is not protected against a seawater environment.

Q2. What is the manual cleaning frequency of Alyza IQ?
A: The main Alyza unit doesn't need manual cleaning because we have the automatic chemical fluid cleaning for the measurement unit. The filtration and overflow vessel needs manual cleaning from time to time but the frequency depends on the application. It will be anywhere from once a month to a few times a year.

Q3. Does seawater/brine have any interference with NO3 and NO2 measurement on UV-Vis Sensor?
A: It's not possible. You can't use an optical sensor to measure Nitrite or Nitrate in seawater because seawater absorbs NO3 and NO2 in the same area.

Q4. Can we measure color parameter from our CarboVis 70x IQ Sensor?
A: We are currently working on UV/VIS Sensors for colour and expect them to come out next year.

Q5. Does the temperature have any effect on the measurement of COD/BOD values as the temperature limit is up to 45 C?
A: Basically there is no temperature effect on the measurement but the hardware is limited to 45C.

Q6. How often do I need to clean and calibrate the CarbovVis 70x IQ Sensor?
A: A difficult question because it's dependent on the application type. The typical cleaning interval is anywhere from once per week to once per year. Most applications require once per several months.

Q7. Are the settings within the controller/sensor maintained during power failure?
A: If a power failure occurs, all settings – the complete configuration, is still maintained in the system so no action is required when the power comes back on.

Q8. Your sensor readings don't match with our lab reading. What do we do?
A: A review of your lab measurement process should be conducted. How do you take the sample? How do you treat the sample? How do you take the measurement and how accurate is the lab process in general?

Q9. How often do I need to clean and calibrate the SensoLyt 700 IQ?
A: For pH online measurement we recommend to calibrate every 2-4 weeks and before calibration a cleaning of the sensor is suggested.

Q10. Does a turbulent application affect the FDO readings?
A: The main application for an FDO is an aeration tank – which is a turbulent application in itself. The influence from air bubbles in an aeration tank is less than 0.1mg/l so the effect of turbulence is more or less zero.

Q11. How come the FDO 700 IQ sensor does not need calibration?
A: This really deserves an in-depth technical answer but briefly, it's a summary of the complete design which allows for a calibration free instrument.

Q12. How does IFL determine where the sludge level is as it is sometimes not so clear with the sludge profile in the clarifier?
A: Often times there are clouds of sludge within a tank and the sludge profile is not so clear but one of the features of the IFL is a complex and advanced algorithm which is running in the background and is able to remove this background interference. Using this algorithm, the IFL is not looking at the cloud or the moving bridge and this is why it's able to track the sludge profile and nothing else.

Q13. When the memory in the IQSN controller becomes full, does it stop recording or does it overwrite the saved values?
A:The memory is built as a storage loop/ring so when the memory becomes full it overwrites the oldest saved data.

Q14. Can a current output be simulated from the controller?
A:Yes, the current output can be in manual mode so it can simulate for example 4 or 20amps.

Q15. How often does the VARiON sensor need matrix adjustment?
A:This depends on the details of the application but you will need a matrix adjustment from once a week up to one every 12 weeks.

Q16. If the end user wants to use a wireless module and the sensor is 100 meters away from the controller, can another wireless module be placed at the 50 meters mark to establish the connection from the sensor to the controller?
A: Our technology can handle a wireless environment of up to 100m. If the distance exceeds 100m, you can add additional wireless connections between.

xylem
Let's Solve Water

For more information, please contact us at:
info.apac@xyleminc.com