

Aquadyne Tech Tip

Title:

AquaNode ES/XL Analog Input Setup, 1-5V Span

Last reviewed: 07/20/01 RW

Products Affected

- AquaNode ES/XL

AquaNode Setup:

1. Open the case by removing the four corner screws.
2. Verify the jumper settings, JP2 and JP3. See the attached jumper drawing.
3. Replace the back cover if AquaNode ES
4. Plug in the Aux I/O connector into the AquaNode ES. To access the XL terminals open the NEMA enclosure and refer to the center of the lower board, the white screen is labeled AUXILLARY INPUT/OUTPUT.
5. AquaNode ES: the two wires from your analog device will land on the "C" (common or ground wire) and "2" terminal block slots. Land the wires such that "2" is positive relative to "C". Land a 250 ohm, 1/10 W minimum, resistor with one leg in "C" and the other in "2".
6. AquaNode XL: the two wires from your analog device will land on the GROUND and INPUT 2 terminal block slots. Land the wires such that INPUT 2 is positive relative to GROUND. Land a 250-ohm, 1/10 W minimum, resistor with one leg in GROUND and the other in INPUT 2.

AquaWeb DB/NE Setup:

1. In Explorer, go to File/Properties/Aux. Parameters.
2. Parameter name – this is the title of your graph.
3. Axis name – this is the vertical axis. It might be "ppm ozone" or "flow in GPM". Time is assigned automatically to the horizontal axis.
4. Parameter offset, 4-20mA (1-5V across 250 ohms) = $\text{Min data value} - (\text{Max data value} - \text{Min data value})/4$
5. Parameter factor, 4-20mA (1-5V across 250 ohms) = $(\text{Max data value} - \text{Min data value})/819.2$
6. Data format – choose the data precision you desire here.
7. The Alarm Control feature will be enabled in a future release.
8. Go to File/Properties/Global Graphing/Graph Order. Select the analog input graph as an option to be displayed.

9. In Explorer, right click on the node name then Properties/Graphing and check the analog input graph to be displayed.

AquaWeb II Setup:

1. Highlight on the AquaNode entry (node) in the AquaWeb Explorer environment.
2. Then go to File/Properties/Node-Group, click on the Aux Parameters button, then the AquaNode Aux. Port tab.
3. Field set-up:

Parameter Name – This is the title of your graph. It might be “PPM OZONE, SEAL QUARANTINE” or “GPM FLOW SHARK EXHIBIT”

Axis Name/Unit of Meas. – This is the vertical axis label, “PPM” or “GPM”.

Min. Value – This is the LOW range of your 3rd party instrument. In most cases this will be ZERO. Confirm this in the 3rd party instrument manual.

Max. Value - This is the HIGH range of your 3rd party instrument. Once again, confirm this in the 3rd party instrument manual.

4. Check the “ENABLED” box, then “OK”.
5. Clicking on the “INFO” button displays the appropriate jumper settings on the AquaNode printed circuit board.

Note: **The Alarm Control feature will be enabled in a future release.**

Additional Information:

Prior to contacting Aquadyne Technical Service please read the appropriate manual sections relevant to your problem, and also consulting the trouble-shooting guide located at the back of the user manual.

If you have completed any tests or experiments to isolate and diagnose your system please make notes and have them available to help our technicians troubleshoot and answer your questions.

When Contacting Aquadyne Technical Service please be ready to provide the following information so that we may help you in the quickest most effective manner.

1. Who are you: Your complete name address, daytime phone number, and an email address if you have one.
2. Which Aquadyne product(s) are involved? The Aquadyne model or product part number, the part number revision letter, the system serial number and the software version number. The software version number is displayed each time the power-up sequence is initiated. The serial number and software version are available in the NEW PASSWORD menu. Entering the new password AQDYN will also display the serial number and software version. After observing and recording the Software Version and Serial Number, press ENTER four times to return to the Status Screen.

Technical Support is available from 9:00 AM to 5:00 PM, PST, (858) 569-2082 X135 Monday through Friday. You may also send mail to support@aquadyne.com.

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