ISC 450 – Programming 4-20 Output and Alarms

This Tech Note is designed to guide you through the programming steps required for 4-20 outputs and alarm set up. All of the steps you will follow are in your ISC 450 Instruction Manual, but we have pulled out just those steps.

At the opening Screen – Press the WRENCH Key

Press the Commissioning diamond

Press the Output setup diamond.
Select **Output** on mA1 and then Press **Enter**

Press Drop Down Menu and select **CONCENT1**

Press **Linear** in Drop Down box so that the **Linear mA1** menu appears.

The 0% value is equivalent to your desired 4 mA and the 100% value is equivalent to 20 mA. So, if your 4 – 20 mA range is to be 0-8% NaOH, leave the 0% value as it is.

Press the 100% value window to bring up the Key pad.
Using the Numeric Pad, enter 8.00 and Press the Enter Key.

Now the 4-20 mA on mA1 of the Analyzer is set for 0-8% percent concentration.

NOW . . . Press the RETURN Key until the Output setup screen comes up again. You can set the mA2 output in the same manner.

Now you can set up your Alarms (S1, S2, and S3) if you desire. If you are NOT using them, Press the Drop Down Menu and select Off. This will eliminate any setup errors being displayed on the Main Menu.
If you want to set up your Alarms (S1, S2, and S3), the dropdown menu and select **Alarm**.

Select what parameter you want to alarm to be set for by pressing the **drop down menu**.

Then Select the diamond next to **Setup alarm**.

Here you have the capability to set the alarm to your desired conditions.

NOW . . . Press the **RETURN** Key until the **Output setup** screen comes up again. You can set the rest of the alarms in the same manner.
Appendix:

One of the features of the EXAxt450 is that the unit allows you to test the electronics, by simulating a 4-20 output to the DCS system. Under the Output setup screen, if you select the drop down menu next to one of the mA, you will see Simulate. Select the Simulate and then enter the desired percentage. When finished select the return key and reselect output from the drop down menu, to return the unit to normal 4-20 operating interface.