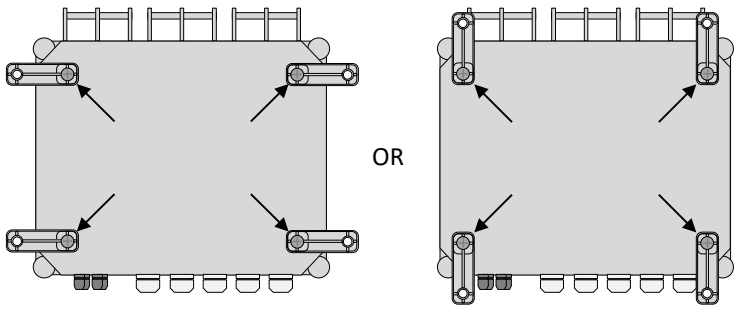
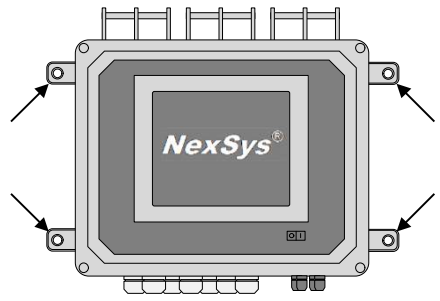
NexSys™ QUICK-START GUIDE – BOILER – STANDARD

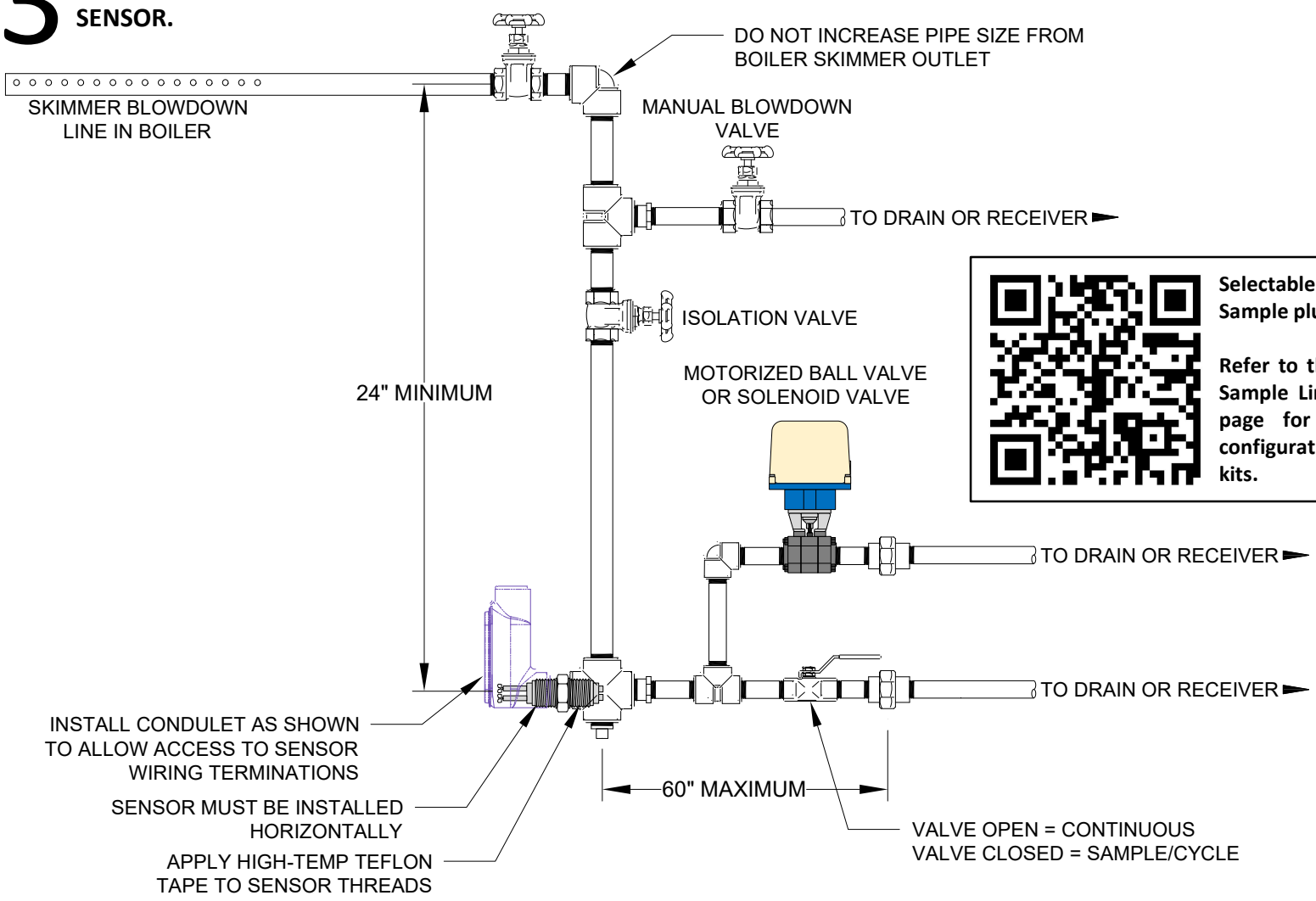
1 ATTACH THE FOUR MOUNTING FEET TO THE BACK OF THE CONTROLLER ENCLOSURE



2 FASTEN THE CONTROLLER TO A FLAT, NON-VIBRATING SURFACE. AVOID METAL SURFACES THAT EXPERIENCE LARGE TEMPERATURE SWINGS.



3 INSTALL BLOWDOWN VALVE AND SENSOR.

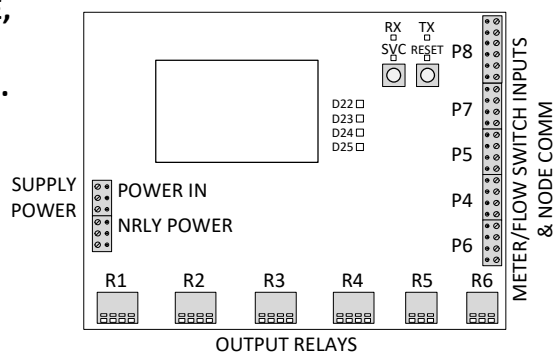


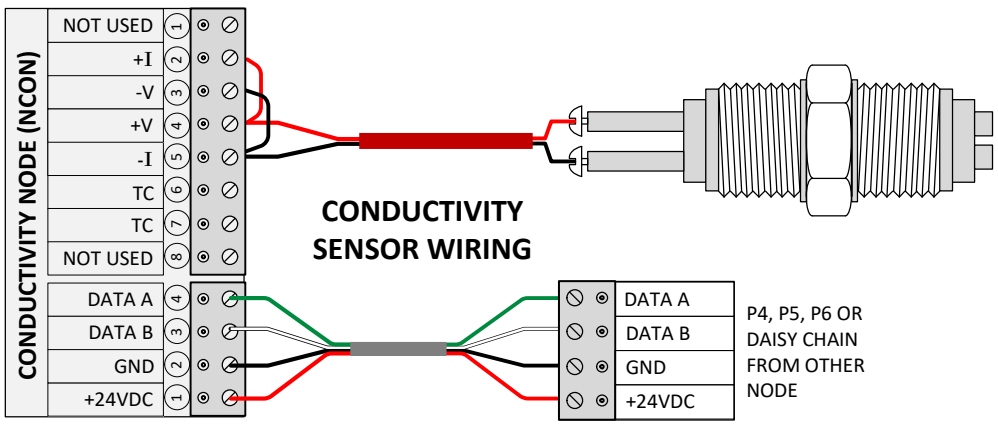
Selectable Sample/Cycle or Continuous Sample plumbing shown.

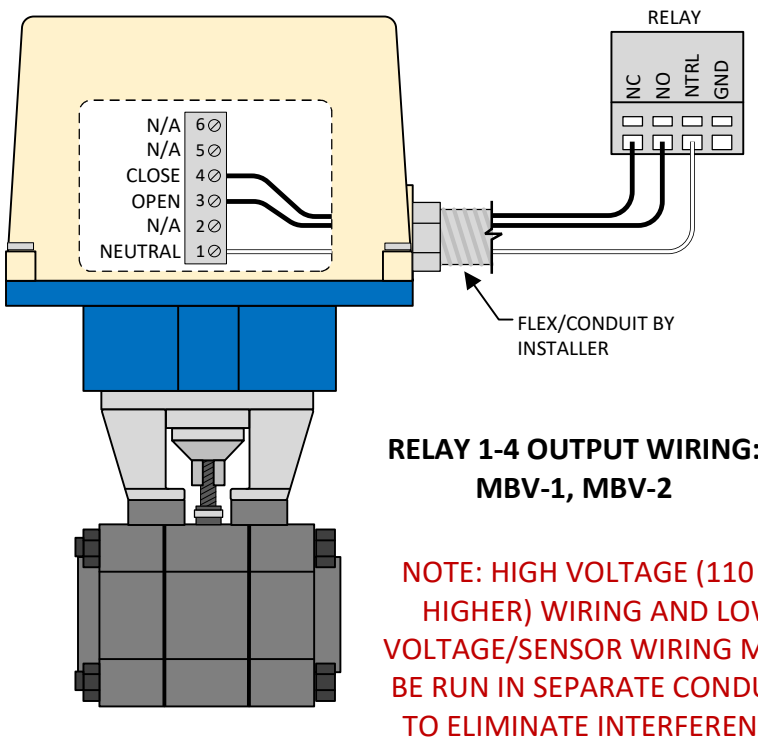
Refer to the links under "Boiler Controller Sample Line Plumbing" on the "Manuals" page for information on other piping configurations and Lakewood plumbing kits.

4 WIRE THE BLOWDOWN VALVE, CONDUCTIVITY SENSOR AND WATER METER, IF APPLICABLE.

Refer to pages 10-13 in the NexSys manual for additional wiring details.

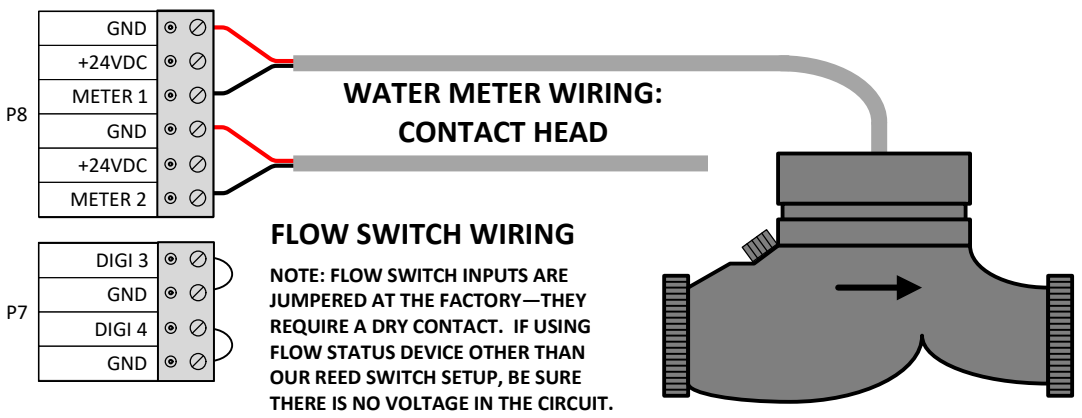






RELAY 1-4 OUTPUT WIRING: MBV-1, MBV-2

NOTE: HIGH VOLTAGE (110 OR HIGHER) WIRING AND LOW VOLTAGE/SENSOR WIRING MUST BE RUN IN SEPARATE CONDUITS TO ELIMINATE INTERFERENCE.



FLOW SWITCH WIRING

NOTE: FLOW SWITCH INPUTS ARE JUMPERED AT THE FACTORY—THEY REQUIRE A DRY CONTACT. IF USING FLOW STATUS DEVICE OTHER THAN OUR REED SWITCH SETUP, BE SURE THERE IS NO VOLTAGE IN THE CIRCUIT.

5 ENSURE WIRING CONNECTIONS ARE CORRECT BEFORE CONTINUING TO PAGE 2.

NexSys™ QUICK-START GUIDE – BOILER – STANDARD

6 APPLY POWER TO THE CONTROLLER

(THERE IS A POWER SWITCH ON THE FRONT PANEL UNDER THE TOUCHSCREEN)

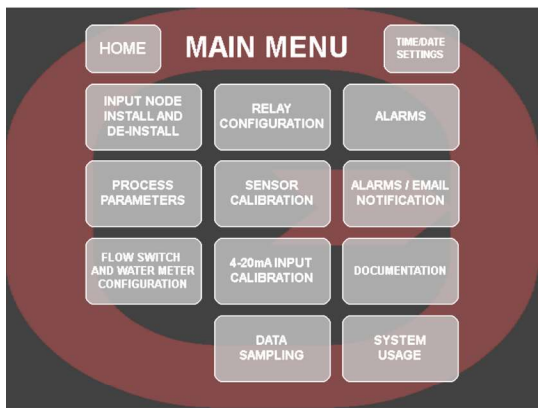
NOTE: ONLY PLUG INTO PROPERLY GROUNDED OUTLET—DO NOT MODIFY THE PLUG IN ANY WAY.

NOTE: IF WIRING DIRECTLY TO CONTROLLER "POWER IN" TERMINALS, BE SURE SOURCE IS PROPERLY GROUNDED.

7 CONTROLLER INTERFACE

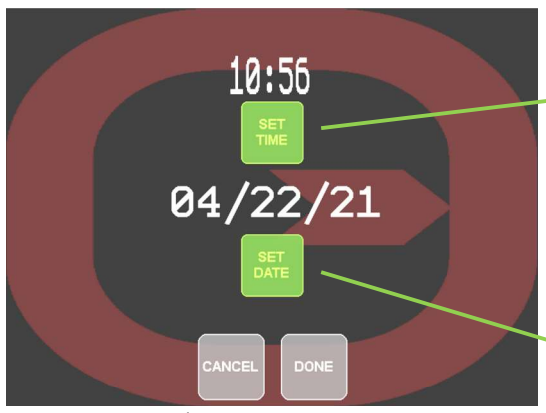
This NexSys™ controller has been shipped with the latest updated graphics. A USB flash drive and loading instructions are included if you want to revert to the old style graphics. Manuals for both versions are available on our website:

This is the HOME SCREEN. It displays values for all installed sensors (NODES), water meter totals, flow switch statuses and output relay statuses. Pressing the HOME button on any other screen will return you to this screen. Press the MAIN MENU button to access the main menu.



This is the MAIN MENU. It provides access to all aspects of controller configuration, data sampling graphs, on-board wiring diagrams and controller information.

8 CHECK DATE/TIME



The controller date/time are set at the factory as part of pre-ship testing. The time is set to Central Standard Time (CST) and may require adjustment for your time zone. From the MAIN MENU, press the TIME/DATE SETTINGS button. Press SET TIME or SET DATE to change. Press DONE to save new time/date settings.

The clock is set to Military Time (24 hr). 14:33 is 2:33 PM. Press OK after change.

Note that the date is formatted as MM-DD-YYYY.
Press OK after change.

9 TEST RELAY OUTPUTS

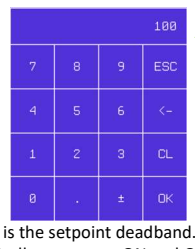
From the HOME SCREEN, press any relay button to override the associated relay ON (Relays 1 through 4 shown). Verify valve and/or pump operation. Press again to override back OFF. The override will automatically release after 5 minutes.

12 CONFIGURE BLOWDOWN

This example shows how to set up the one common blowdown method. Refer to page 21 in the NexSys manual for other options.

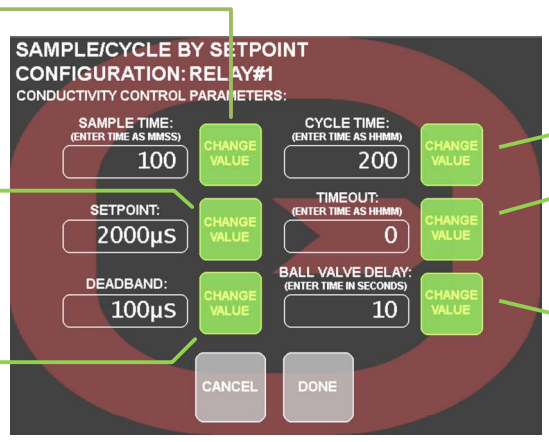
This is the sample time (Time during which live sample value is read). It is formatted as MMSS (Time shown is 1 minute).

This is the system setpoint. The blowdown valve will react to the live sample reading based on this value and the deadband below it.



This is the setpoint deadband. It basically creates an ON and OFF setpoint based on the system setpoint.

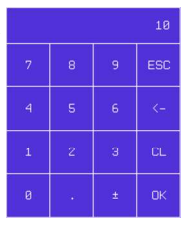
As shown, the blowdown valve will open for 1 minute to get a sample value. If the sample is below 1950µS (Setpoint - ½ Deadband), the blowdown valve will close. If the sample is above 2050µS (Setpoint + ½ Deadband), it will stay open until the sample value drops below 1950µS (Setpoint - ½ Deadband). The next sample will occur 2 hours after the blowdown valve closes.



From the MAIN MENU press RELAY CONFIGURATION. Under Relay 1, press SETPOINT. On the next screen, select your desired control method (SAMPLE/CYCLE BY SETPOINT is shown). Select the appropriate sensor/flow switch and press CONTINUE TO CONTROL PARAMETERS. Enter appropriate values for your specific application. Press DONE to save.

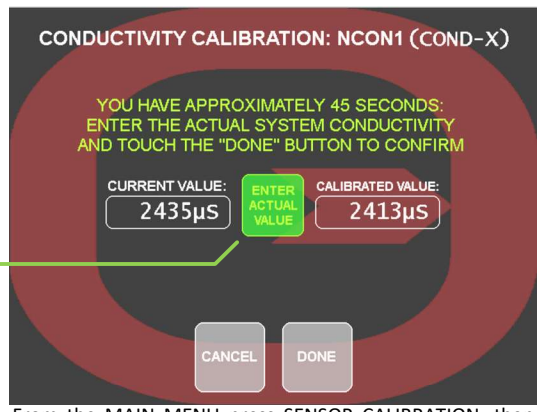
Refer to Manual.

This is the cycle time (Time between samples). It is formatted as HHMM (Time shown is 2 hours).



This is the stroke time of the motorized ball valve—Refer to manufacturer's specifications.

10 SENSOR CALIBRATION

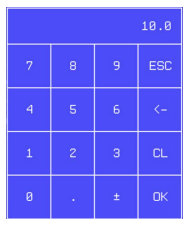


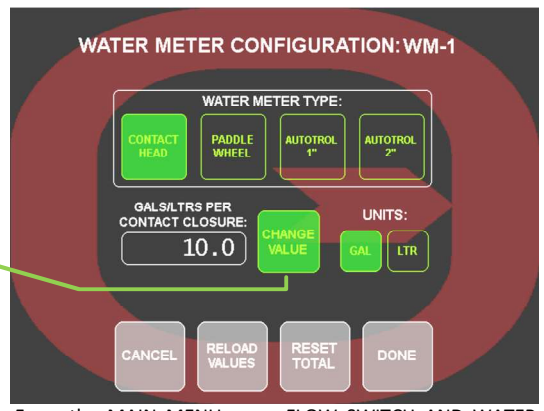
From the MAIN MENU press SENSOR CALIBRATION, then GO TO CONDUCTIVITY CALIBRATION. You will be presented with an alarm screen which indicates if any conditions exist which prevent calibration. If there are none, press PROCEED TO CALIBRATION, select the intended sensor and you will arrive at this screen. When prompted, press ENTER ACTUAL VALUE, enter the sample value from your handheld and press OK. Press DONE to save and apply.

Refer to page 33 in the NexSys manual for more information.

11 CONFIGURE WATER METERS

(IF APPLICABLE)





Refer to page 38 in the NexSys manual for more information.

From the MAIN MENU press FLOW SWITCH AND WATER METER CONFIGURATION. You'll be presented with a screen that allows name change and visibility on home screen. Press SET TYPE AND K FACTOR for the desired meter to get to this screen. Press CHANGE VALUE, enter the rated gallons/liters per contact or K-factor for the meter and press OK. **Selecting either Autotrol requires no other input.** Press DONE to save and apply.

Thank you for your purchase of this Lakewood Instruments controller.
We would like to know what features **YOU** would like to see in our next new product.

Please let us know!

https://survey.zohopublic.com/zs/dZBUTn