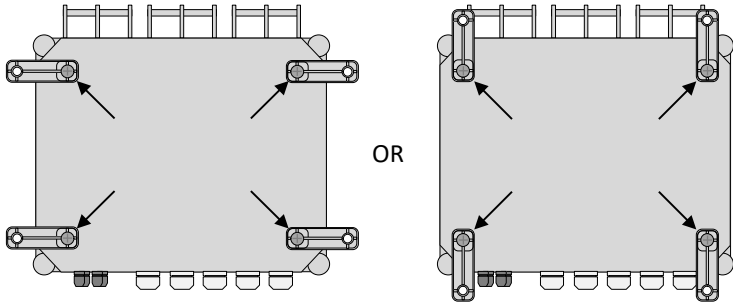
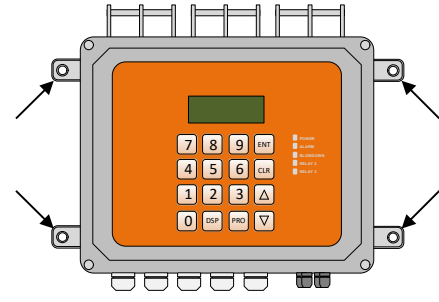


MODEL 150 QUICK-START GUIDE

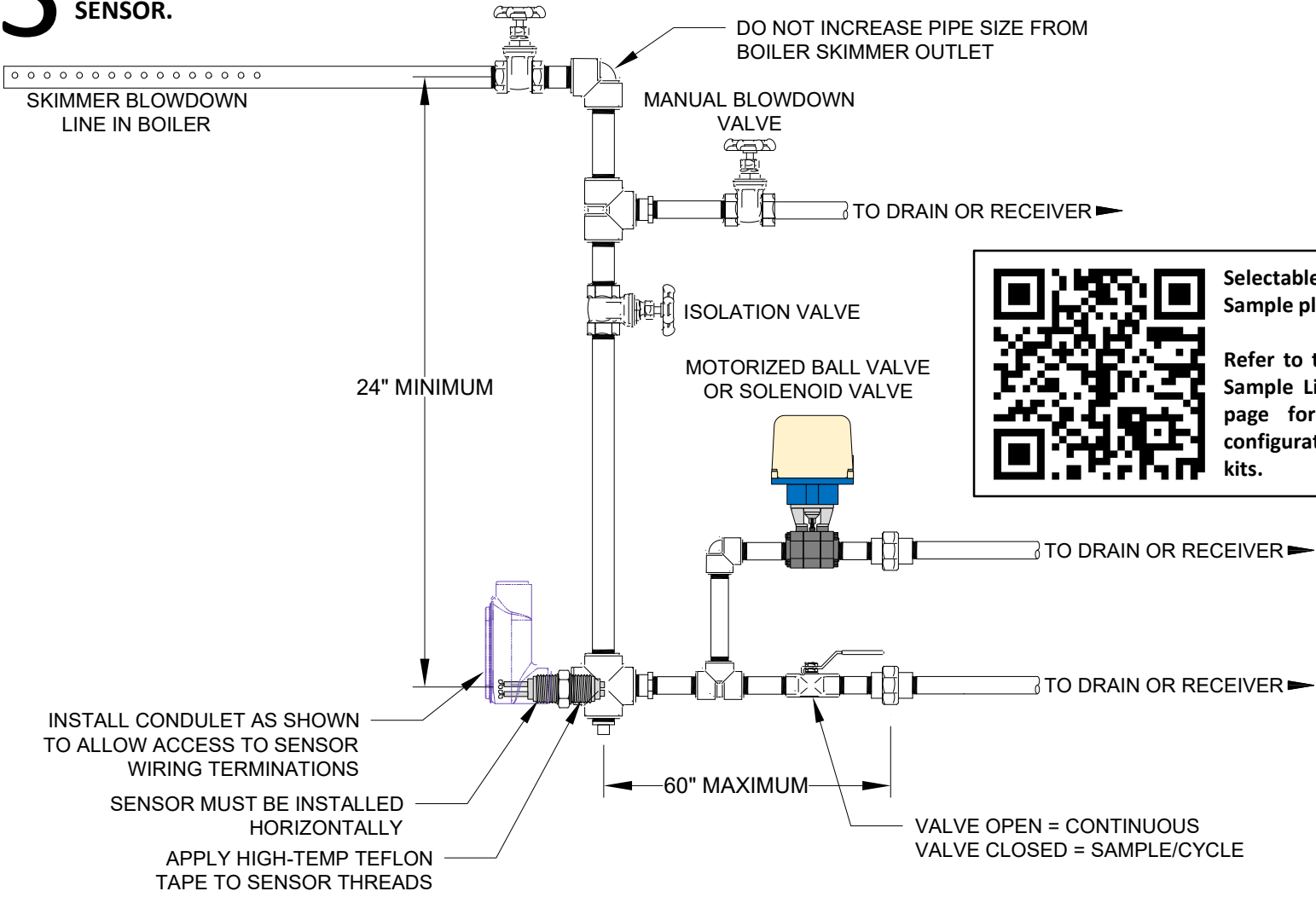
1 ATTACH THE FOUR MOUNTING FEET TO THE BACK OF THE CONTROLLER ENCLOSURE



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



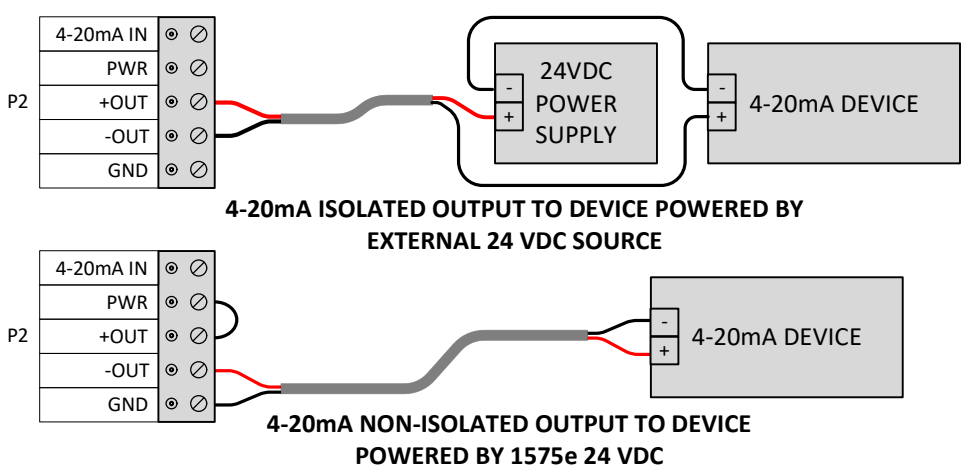
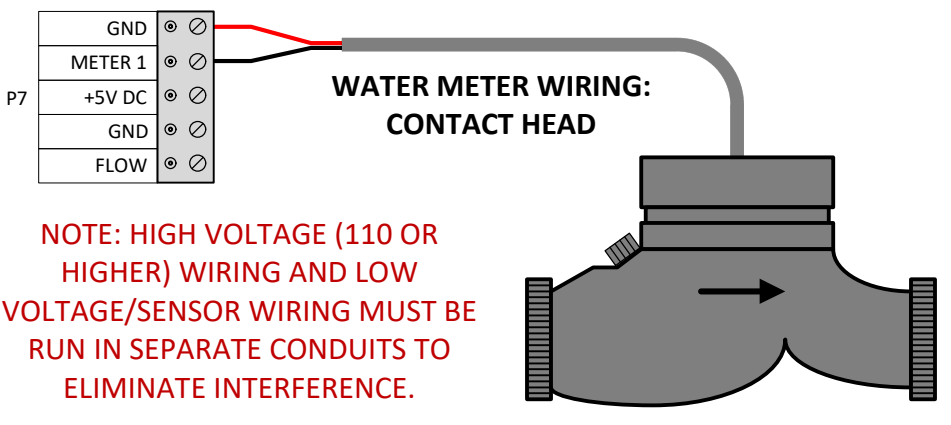
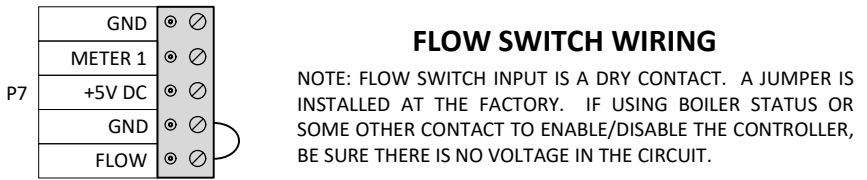
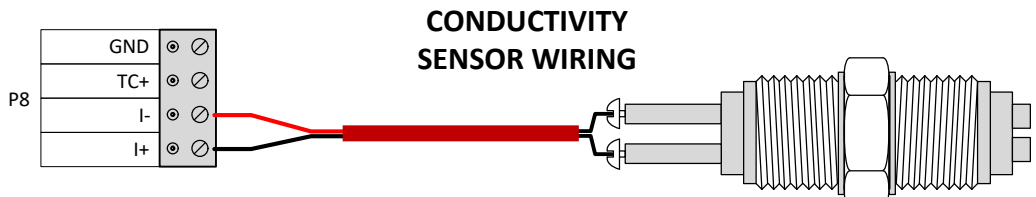
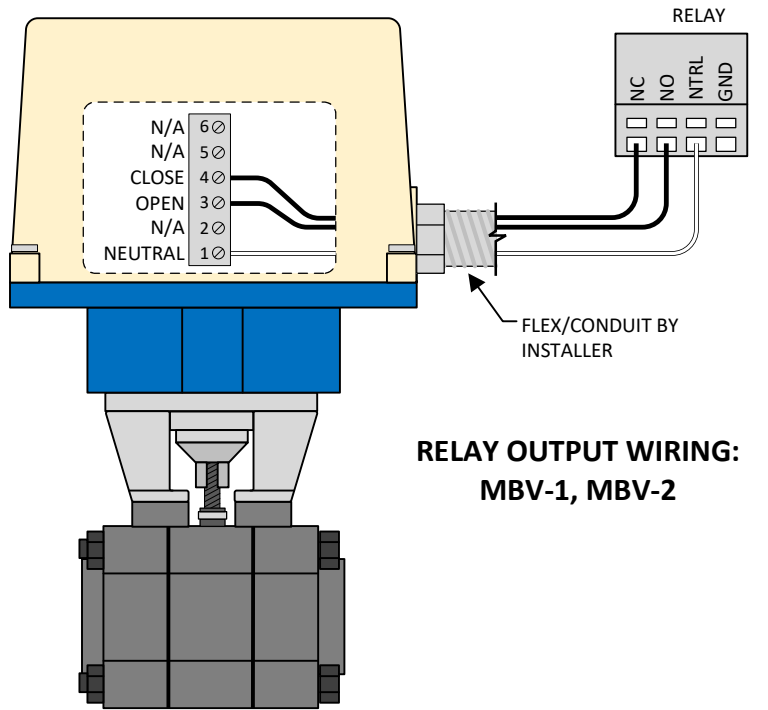
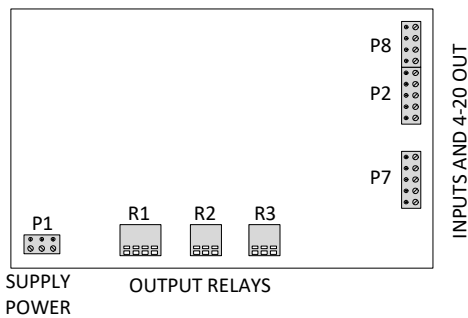
3 INSTALL BLOWDOWN VALVE AND SENSOR.



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, WATER METER AND 4-20mA OUT, IF APPLICABLE.



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

MODEL 150 QUICK-START GUIDE

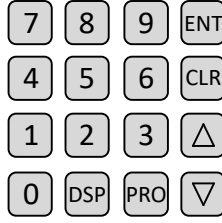
6 APPLY POWER TO THE CONTROLLER

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

NOTE: IF WIRING DIRECTLY TO CONTROLLER P1 TERMINALS, BE SURE SOURCE IS PROPERLY GROUNDED.

7 CONTROLLER INTERFACE

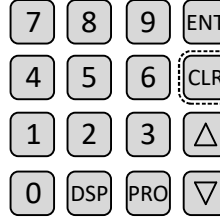
MODEL 150
press any key



- POWER
- ALARM
- BLOWDOWN
- RELAY 2
- RELAY 3

When the controller is first powered up, you should see this screen. Press any key to access the Process screen.

1234 μ S
RLY: B 2 3



- POWER
- ALARM
- BLOWDOWN
- RELAY 2
- RELAY 3

This is the Process screen. It displays the current conductivity and relay status. The LED's show flow switch status, relay status and if any alarms are active. Press "CLR" to access the Main Menu.

MAIN MENU
1 PROCESS

This is the Main Menu. Menu items are accessed by either pressing the associated number keys or using up/down arrows to the desired item and pressing "ENT" to select. Selecting #1 (PROCESS) returns you to the Process screen, shown to the left. Other menu items will be referred to in the following steps. Here is a list of all menu items:

- 1 PROCESS
- 2 RELAYS
- 3 ALARMS
- 4 WATER METER
- 5 4-20 MA OUT
- 6 SYSTEM SETUP
- 7 CLOCK

8 CHECK DATE/TIME

THU 21 JAN '21
14:15:16

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.

Press the "PRO" key to change the date/time.

THU 21 JAN '21
14:15:16

Use the up/down arrows to change day of week and month. Use number keys for date, year and time. Press the "ENT" key to move to the next field.

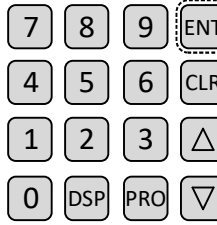
Note: The "ENT" key must be pressed for all fields for changes to be saved. Press "CLR" to return to the Main Menu and select #1 to return to the Process screen.

MAIN MENU
7 CLOCK

From the Main Menu, press the "7" key or go to #7 and press "ENT" to access the Clock screen.

9 TEST RELAY OUTPUTS

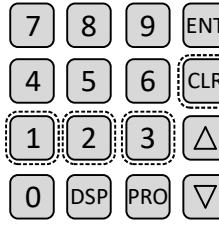
1234 μ S
RLY: B 2 3



- POWER
- ALARM
- BLOWDOWN
- RELAY 2
- RELAY 3

From the Process screen, press "ENT" to access the Relay Override screen.

MANUAL-RLY 5 MIN
RLY: B 2 3



Relay "OFF"
Relay "ON"

- POWER
- ALARM
- BLOWDOWN
- RELAY 2
- RELAY 3

This is the Manual Override screen. Press keys 1-3 to activate/de-activate the associated relays. Verify valve and/or pump operation. The override will automatically release after 5 minutes. Press "CLR" to return to the Process Screen.

10 CONFIGURE WATER METER

IF NO WATER METER IS USED, SKIP TO STEP 11

You will need to correctly configure the water meter input to ensure accurate flow total.

MAIN MENU
4 WATER METER

From the Main Menu, press the "4" key or go to #4 and press "ENT" to access the Meter Configuration screen.



Refer to page 37 in the 150 manual for more information.

11 CONFIGURE RELAYS

You will need to configure the blowdown relay and chemical relays.

The boiler blowdown control method can be any one of the following: Sample/Cycle, Sample/Hold or Continuous Sample.

Be sure the plumbing configuration matches the chosen control method.



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

MAIN MENU
2 RELAYS

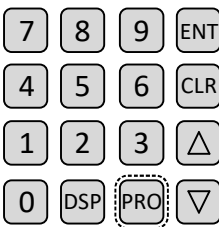
On the main menu, press the "2" key or go to #2 and press "ENT" to access the relay configuration screen.



Refer to page 25 in the 150 manual for more information.

12 SENSOR CALIBRATION

1234 μ S
RLY: B 2 3



While on the Process screen, press "PRO" to access the Calibration screen.

PLEASE WAIT
OBTAINING SAMPLE

If your blowdown relay was set up as Sample/Cycle or Sample/Hold, you will see this screen first. The blowdown relay will activate for the programmed sample time, then switch to the following screen.

CALIBRATION:
1345 μ S :59

You'll have 60 seconds to enter the value from your hand-held tester and press "ENT".

CALIBRATION:
1345 μ S :59

If your blowdown relay was set up as Continuous Sample, you will go directly to the Calibration screen where you'll have 60 seconds to enter the value from your hand-held tester and press "ENT".



Refer to page 22 in the 140 manual for more information.

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>