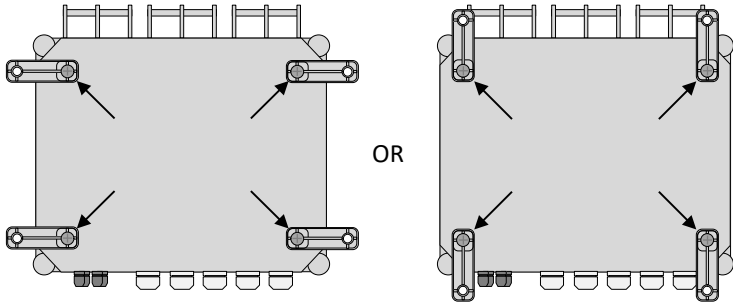
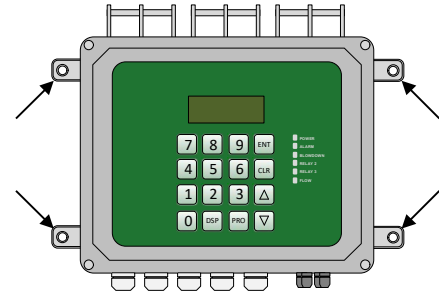


MODEL 140 QUICK-START GUIDE

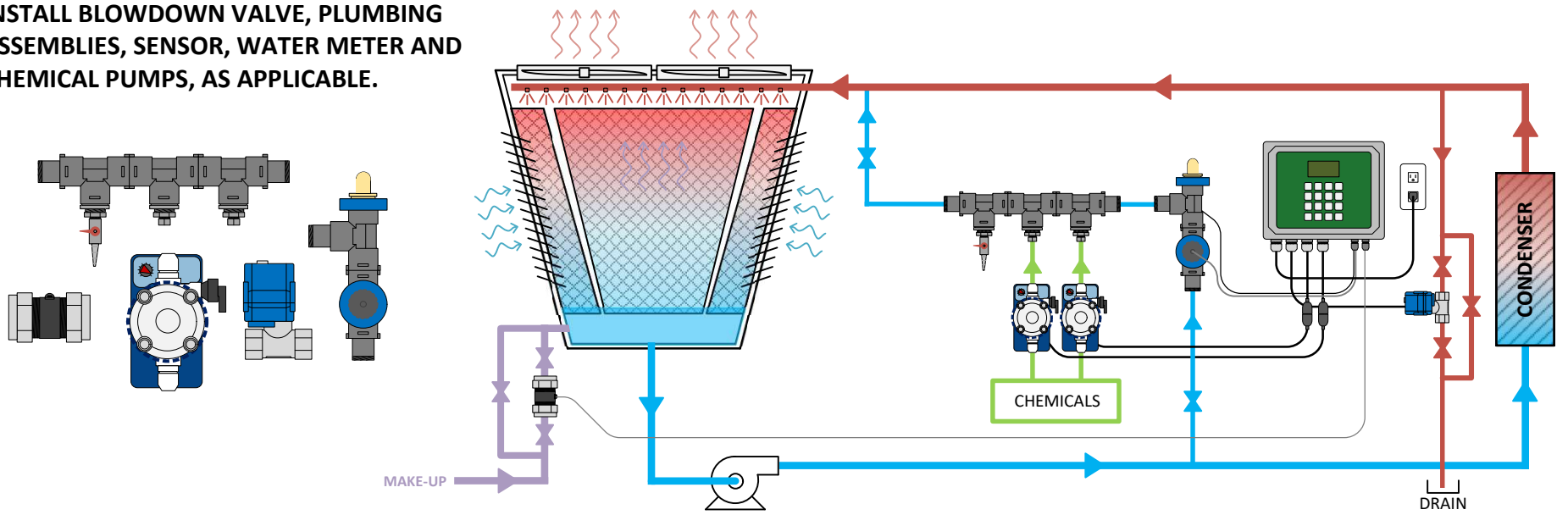
1 ATTACH THE FOUR MOUNTING FEET TO THE BACK OF THE CONTROLLER ENCLOSURE



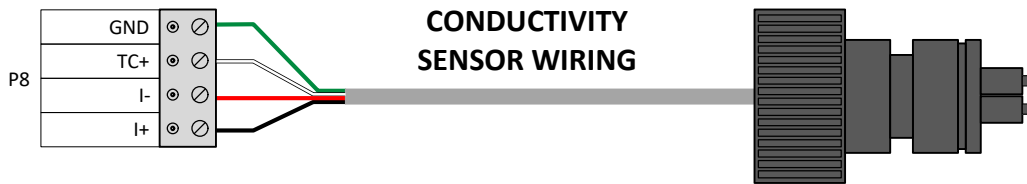
2 FASTEN THE CONTROLLER TO A FLAT, NON-VIBRATING SURFACE. AVOID METAL SURFACES THAT EXPERIENCE LARGE TEMPERATURE SWINGS.



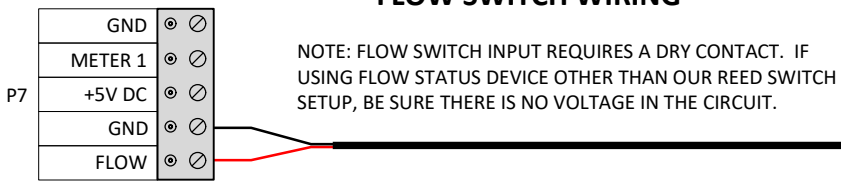
3 INSTALL BLOWDOWN VALVE, PLUMBING ASSEMBLIES, SENSOR, WATER METER AND CHEMICAL PUMPS, AS APPLICABLE.



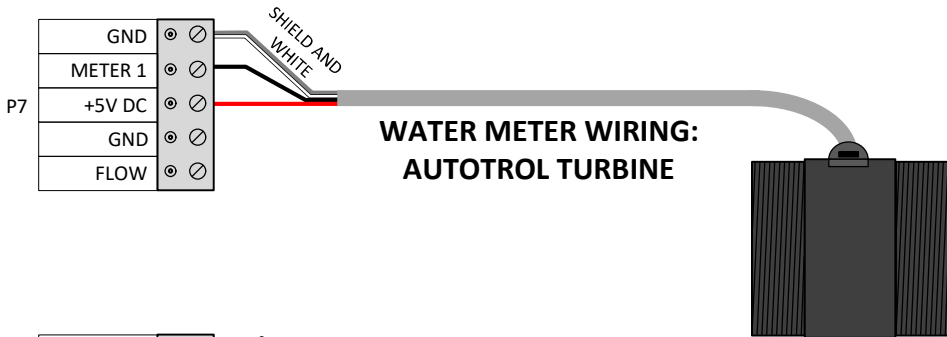
CONDUCTIVITY SENSOR WIRING



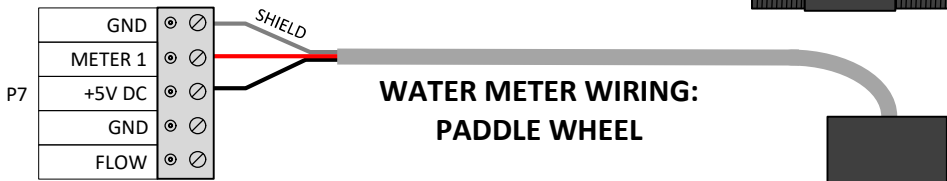
FLOW SWITCH WIRING



WATER METER WIRING: AUTOTROL TURBINE



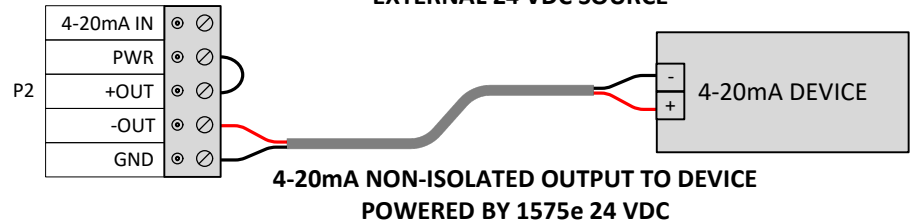
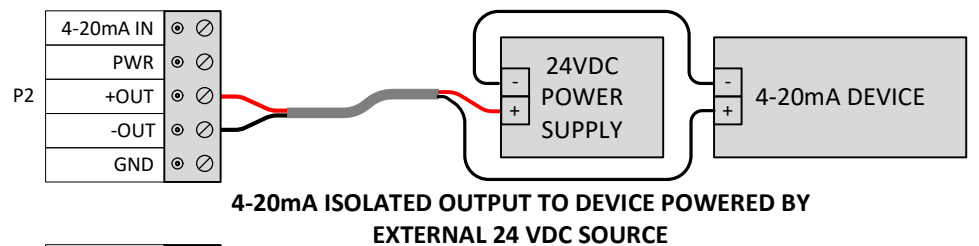
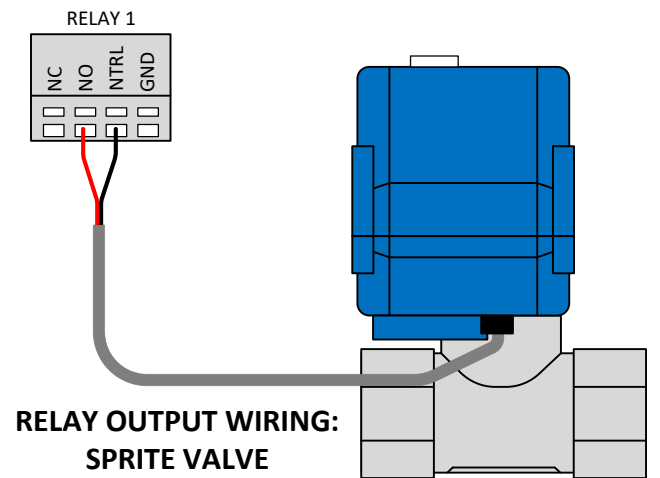
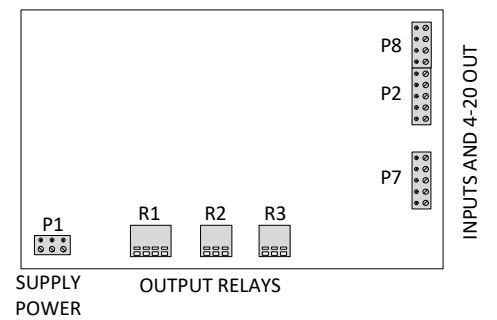
WATER METER WIRING: PADDLE WHEEL



WATER METER WIRING: CONTACT HEAD



4 WIRE THE BLOWDOWN VALVE, CONDUCTIVITY SENSOR, WATER METER AND 4-20mA OUT, IF APPLICABLE.



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

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

MODEL 140 QUICK-START GUIDE

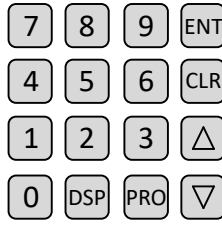
6 APPLY POWER TO THE CONTROLLER

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.

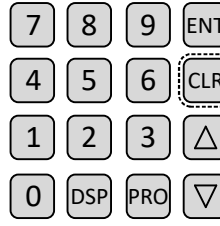
7 CONTROLLER INTERFACE

MODEL 140
press any key



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



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 FEED SCHEDULE
- 4 ALARMS
- 5 WATER METER
- 6 4-20 MA OUT
- 7 SYSTEM SETUP
- 8 CLOCK

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.

MAIN MENU
8 CLOCK

From the Main Menu, press the "8" key or go to #8 and press "ENT" to access the Clock screen.

THU 21 JAN '21
14:15:16

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

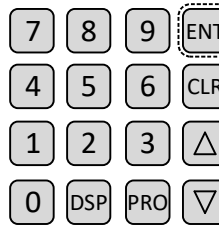
THU 21 JAN '21
14:15:16

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.

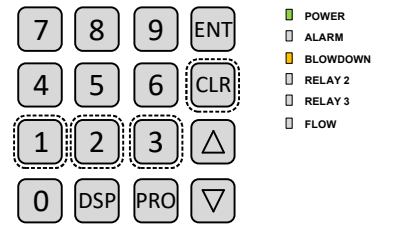
9 TEST RELAY OUTPUTS

1234 μ S
RLY: B 2 3



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

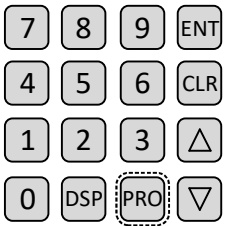
MANUAL-RLY 5 MIN
RLY: B 2 3



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 SENSOR CALIBRATION

1234 μ S
RLY: B 2 3



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

CALIBRATION:
1345 μ S

This is the Calibration screen. Enter the value from your hand-held tester and press "ENT".



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

11 CONFIGURE WATER METER

IF NO WATER METER IS USED,
SKIP TO STEP 12

You will need to correctly configure the water meter inputs to ensure accurate flow totals.

MAIN MENU
5 WATER METER

From the Main Menu, press the "5" key or go to #5 and press "ENT" to access the Meter Configuration screen.



Refer to page 32 in the 140 manual for more information.

12 CONFIGURE RELAYS

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

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 23 in the 140 manual for more information.

13 SET UP FEED PUMP SCHEDULES

If relays 2 or 3 have been configured as "FEED SCHEDULE" you will need to set up one or more schedules to control them.

MAIN MENU
3 FEED SCHEDULE

On the main menu, press the "3" key or go to #3 and press "ENT" to access the Feed Schedule setup screens.



Refer to page 30 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>