

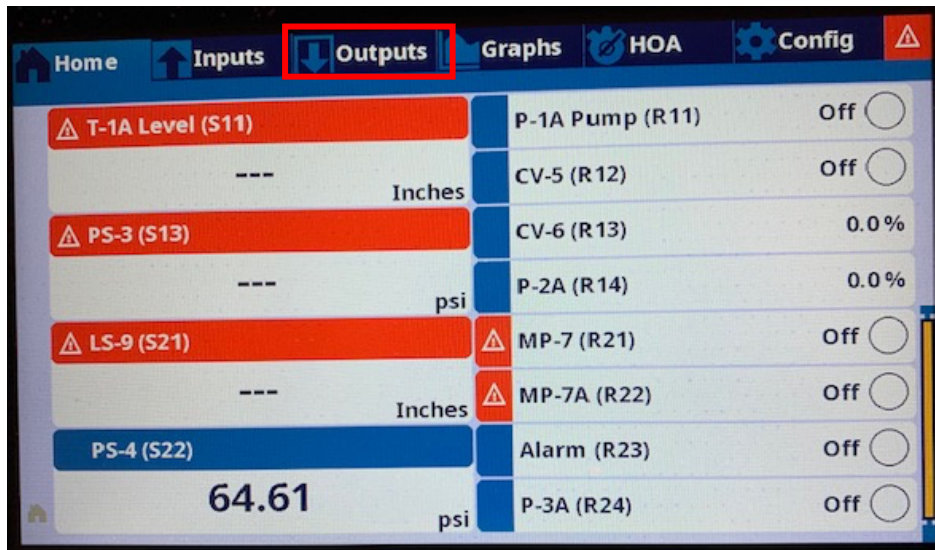
Intuition-9 Controller Relay Interlocks

There are several different types of interlocks that can be programmed into the controller. This document discusses using the Interlock Channel field in the Relay menu, specifically, enabling one relay to interlock another relay.

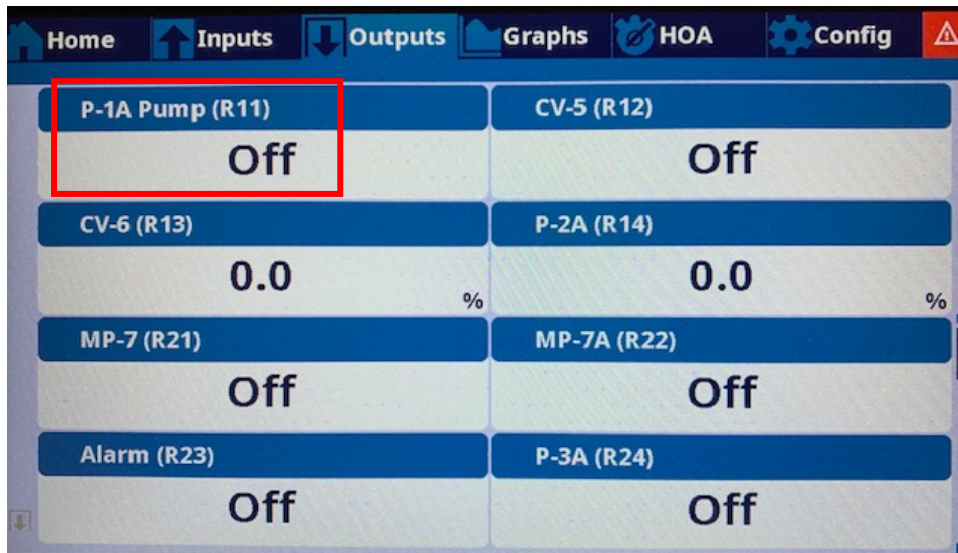
Intuition-9 Controllers

To navigate to the Relay Interlock menu, please follow the screen shots below.

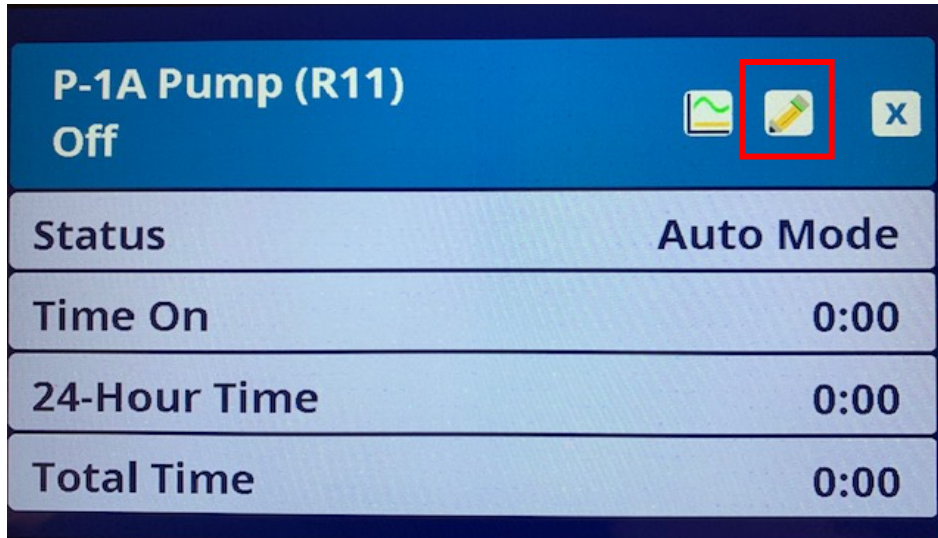
Intuition-9: Go to Outputs.



Select the Relay, R11.



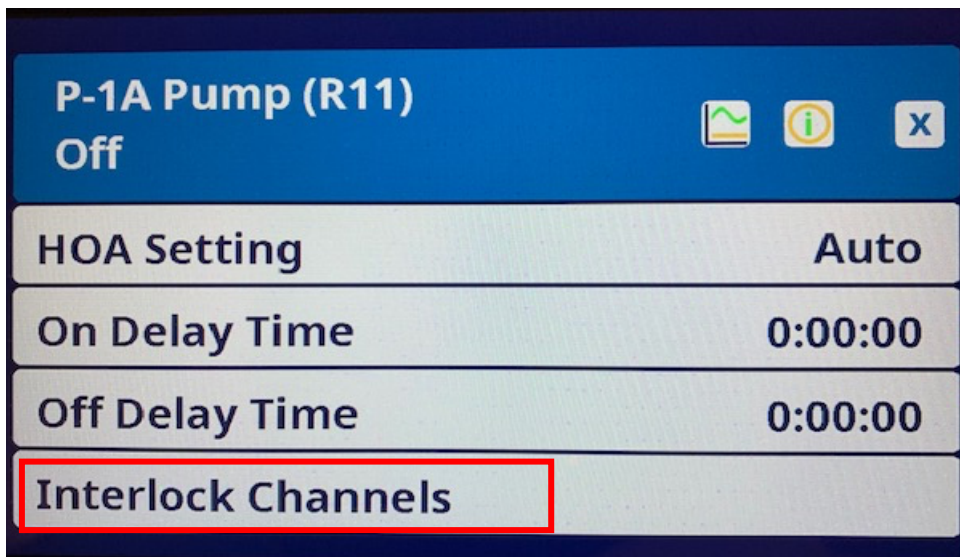
Go to Settings.



The screenshot shows the settings menu for the P-1A Pump (R11). The pump is currently Off. The menu includes a status bar with a graph icon, a pencil icon (highlighted with a red box), and a close button (X). Below the status bar is a table with the following data:

Status	Auto Mode
Time On	0:00
24-Hour Time	0:00
Total Time	0:00

Go to Interlock Channels.

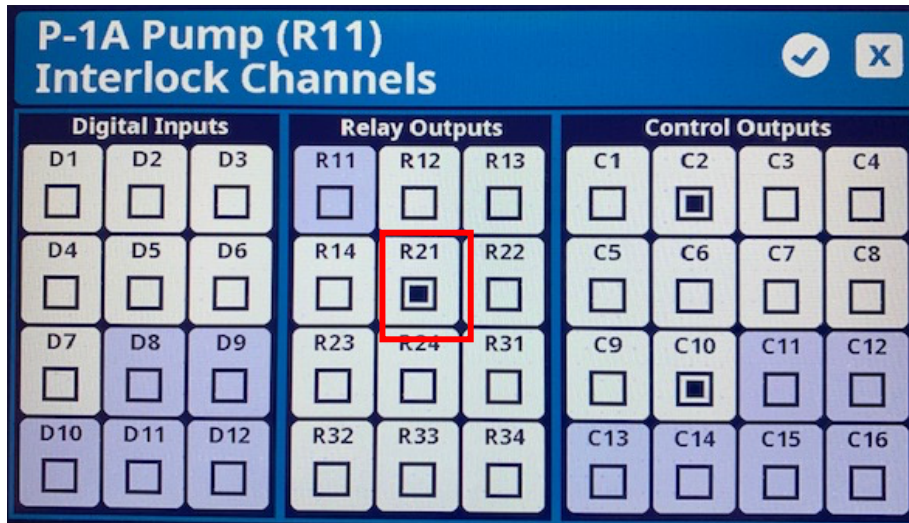


The screenshot shows the settings menu for the P-1A Pump (R11). The pump is currently Off. The menu includes a status bar with a graph icon, an information icon (i), and a close button (X). Below the status bar is a table with the following data:

HOA Setting	Auto
On Delay Time	0:00:00
Off Delay Time	0:00:00
Interlock Channels	

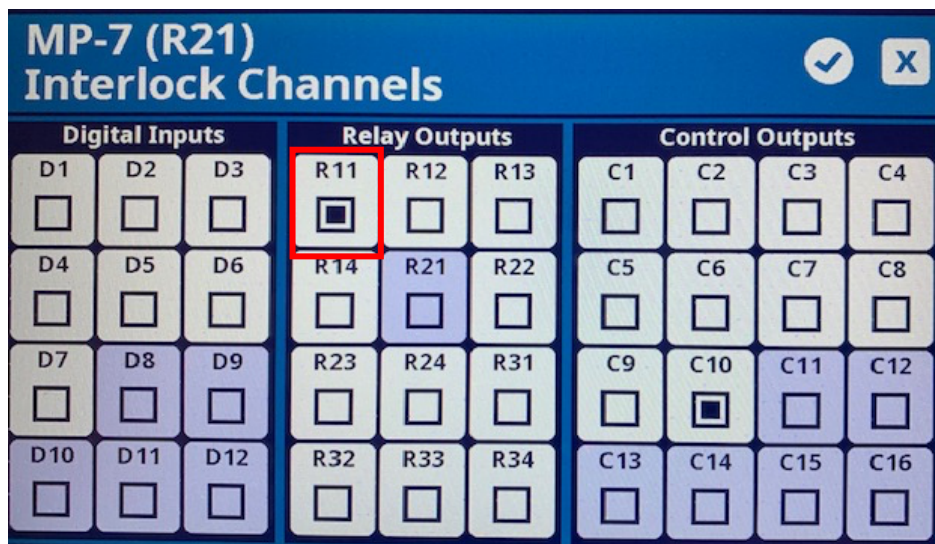
Press on the Interlock Channels field (shown above).

Press on R21 (shown below), and you will see this screen:



In this example, you've programmed the R1 relay such that if R21 activates, R11 will be interlocked. If R11 is On when R21 activates, R11 will immediately shut Off. If R11 is Off when R21 activates, R11 will not be able to activate until R21 deactivates. This is referred to as Permissive Interlock.

Now keeping the above programming in R11 menu, let's say you go to Relay21 menu, **Outputs/R21/Settings/Interlock Channels** and press on R11, as shown in the screen shot below.



Since the R11 menu has Interlock Channels R21, and the R21 menu has Interlock Channels R11, whichever relay activates first will prevent the other relay from activating. This is referred to as Mutual Interlock.