Interlock Instruction
Open PanelMate HiRA_PLC_NEW.MT2 and go to page 5

There are two sets of relays (SP1 & SP2) that can be set separately in the system, and only SP1 is used during the experiment. The status of the interlock can be found from 'S800 Vac Status'. It will be red and has message like 'SP1 Bad' when the vacuum of the S800 chamber is worse than your setpoint.

Change setpoints
1. Click on 'S800 Vac Setpoints' and click 'Enter Setpoint 1 (Torr)' at the top right.
2. Enter the new value with unit of torr and click 'OK'

When the vacuum is better than your setpoint, the 's800 Vac Status' will change to blue and show the message of 'SP1Ready'.

Click on 's800 Vac Status' and click 'Reset SP1' at the top right to reset the relays. The 's800 Vac Status' will change to yellow and show 'SP1 OK', and the LED in the interface board will turn on. This reset only has effect when the vacuum is good and it has no 'memory effect'.

The Sparky also needs a enable signal from the DataU, you need to make sure that you have a TTL output '1' from the Lecroy 222 (dual gate generator) in DataU6. Press the start button to enable (the red LED will be on) or stop button to shutdown the Sparky.