

TFTBREW

Brewzone 2018

An Arduino Mega2560 PID controller

Which uses

320*480 TFT LCD Touchscreen

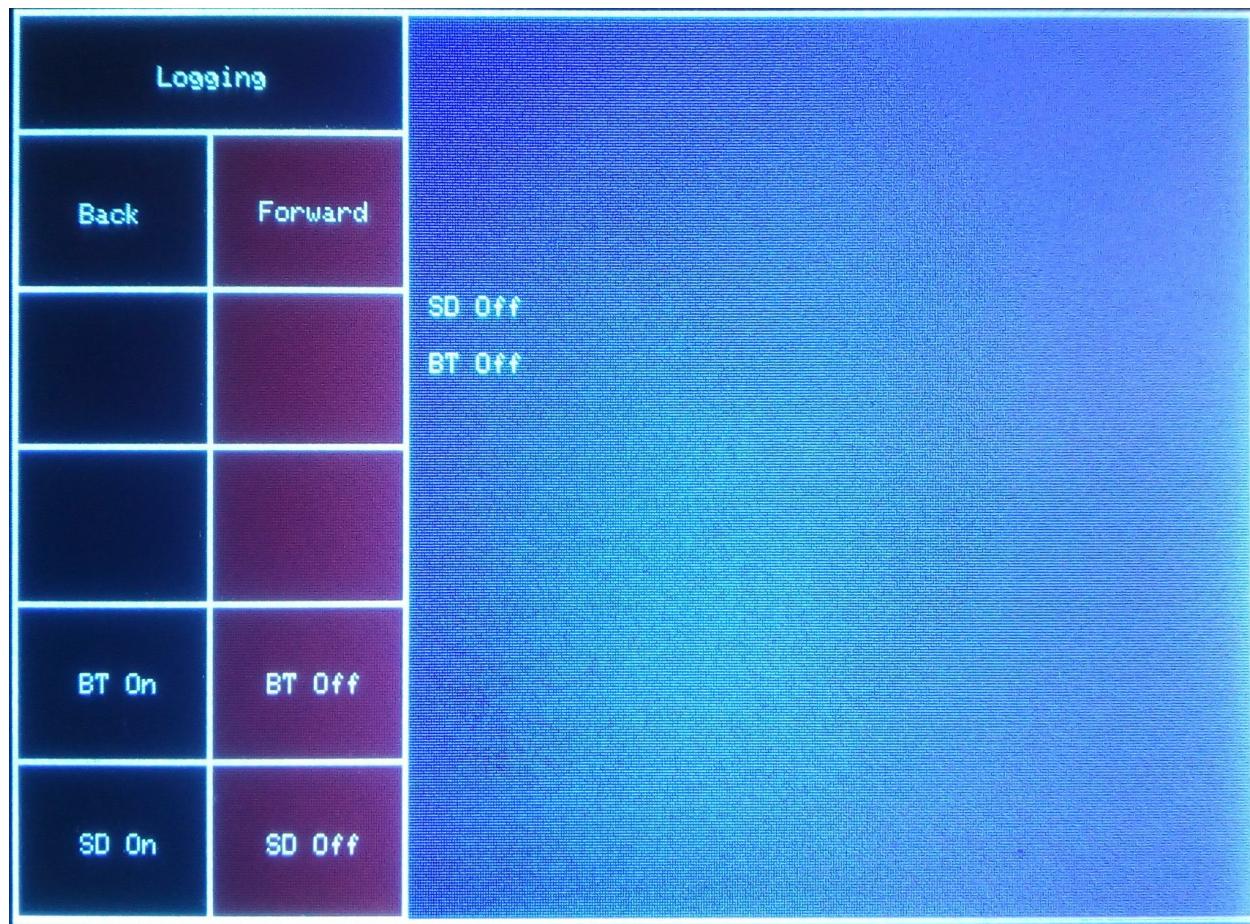
2 * MAX31865

2 * PT100

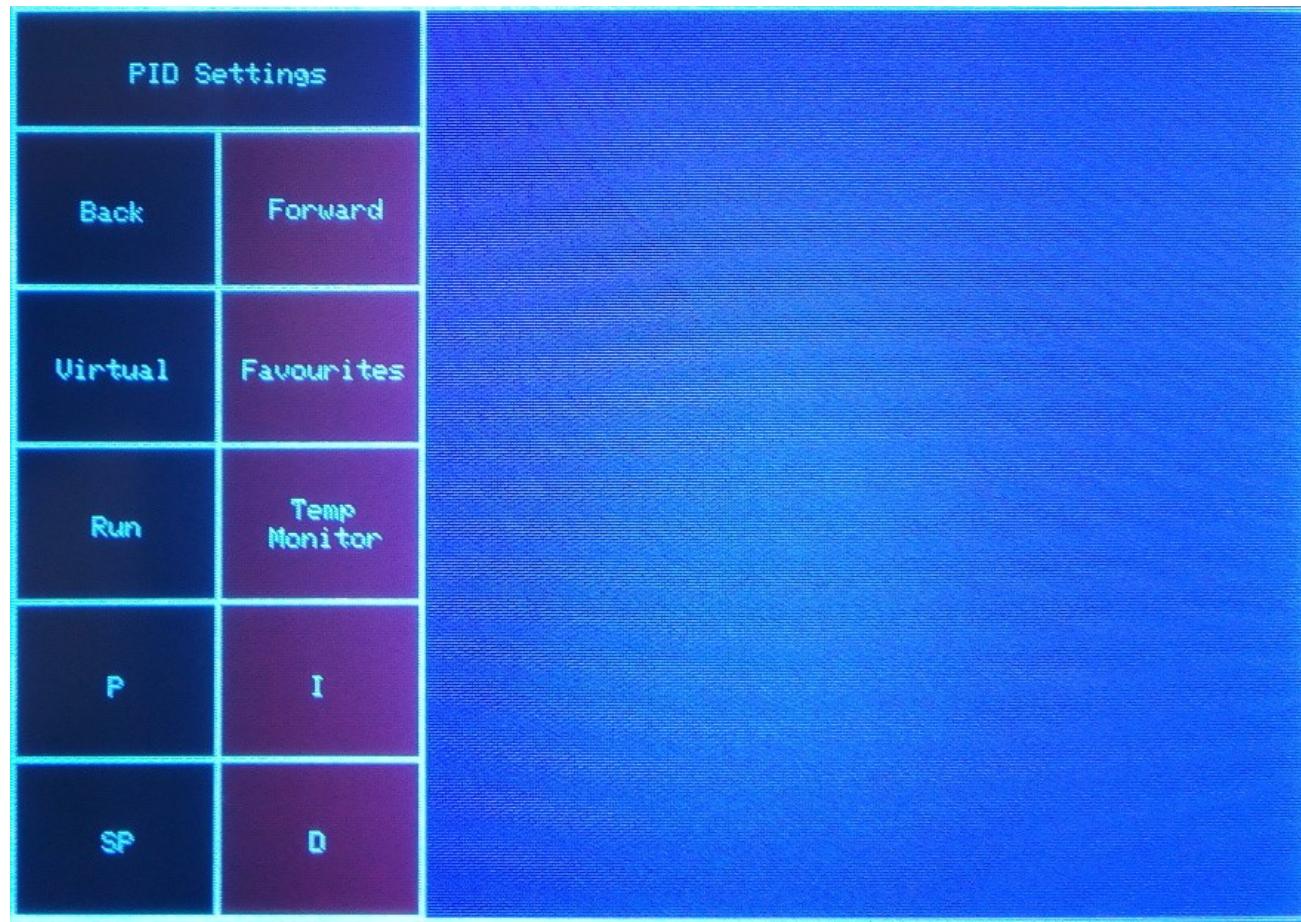
Boot Screen



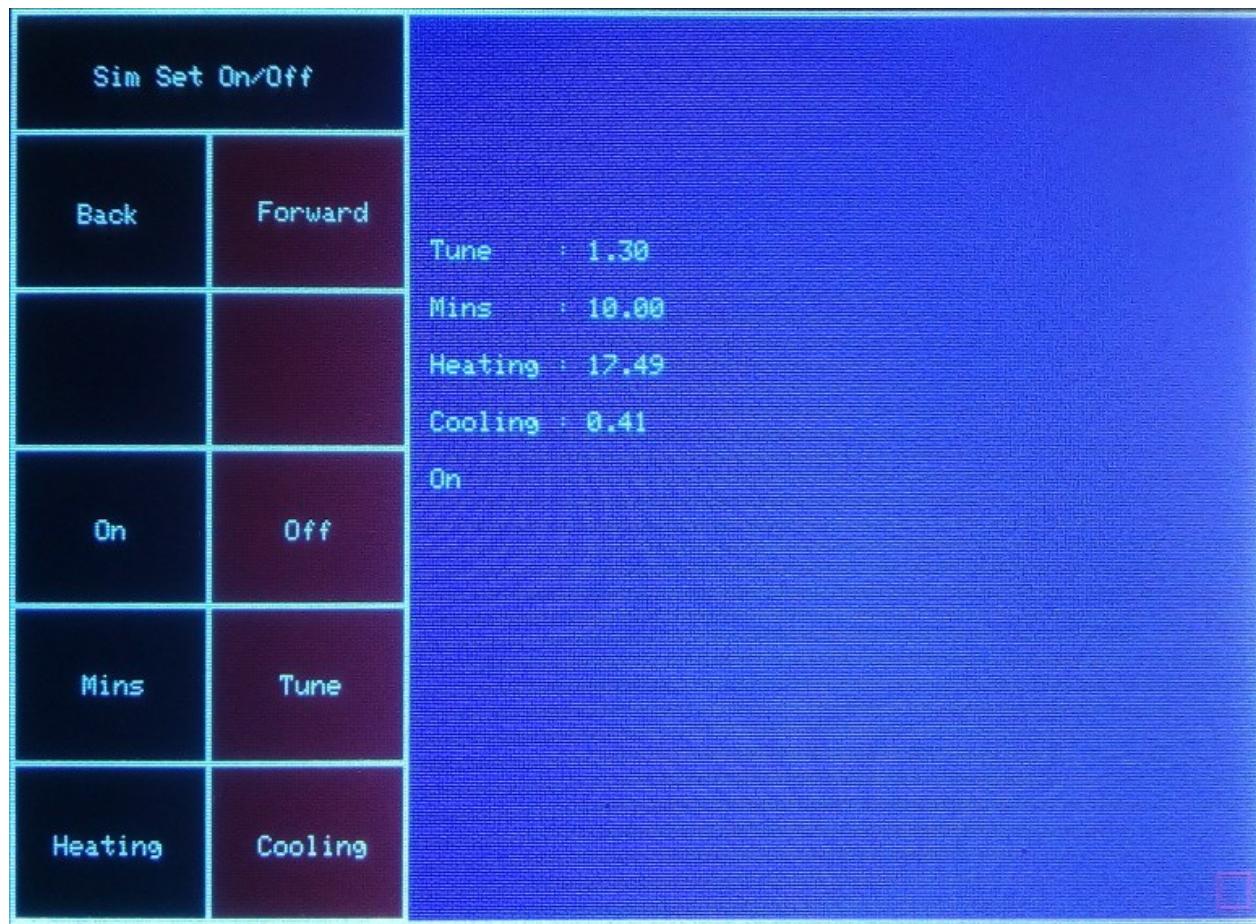
Logging



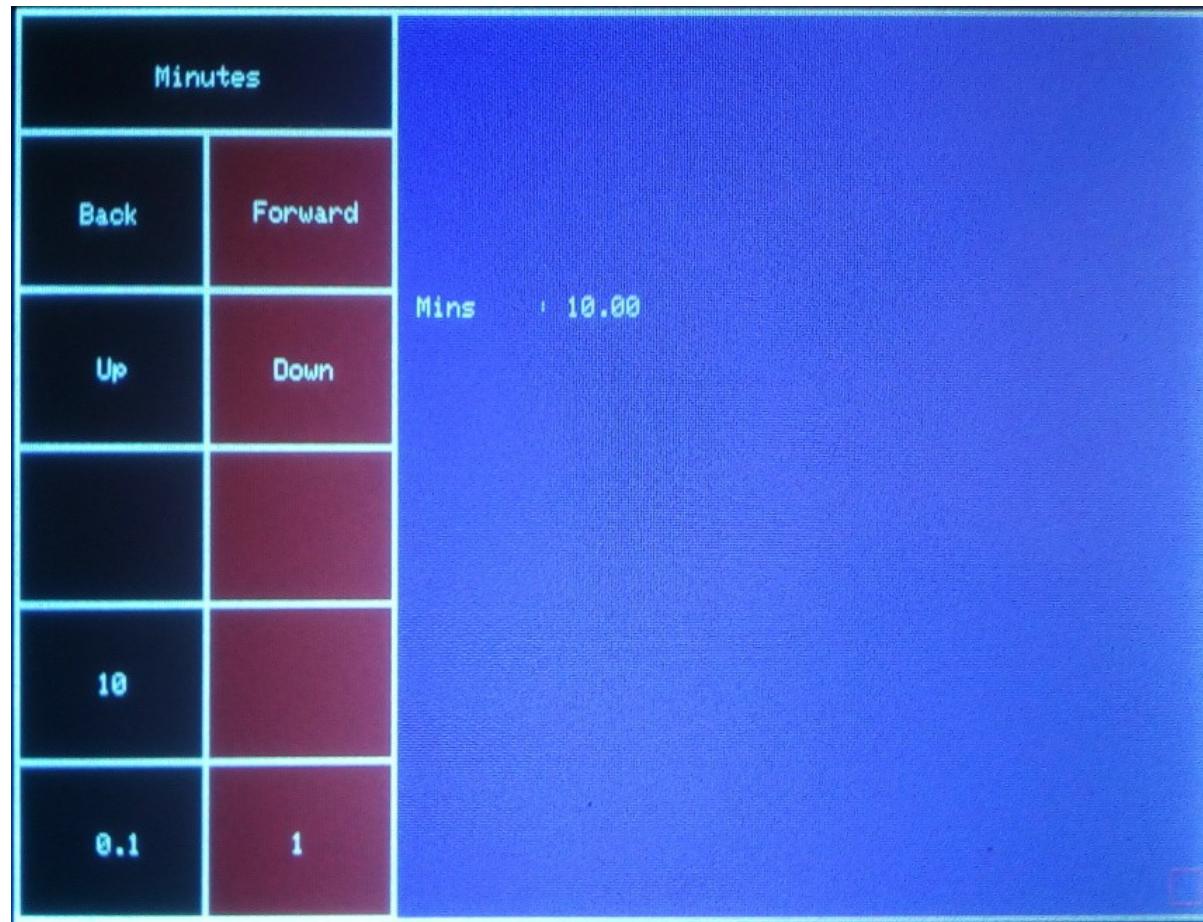
PID Main screen



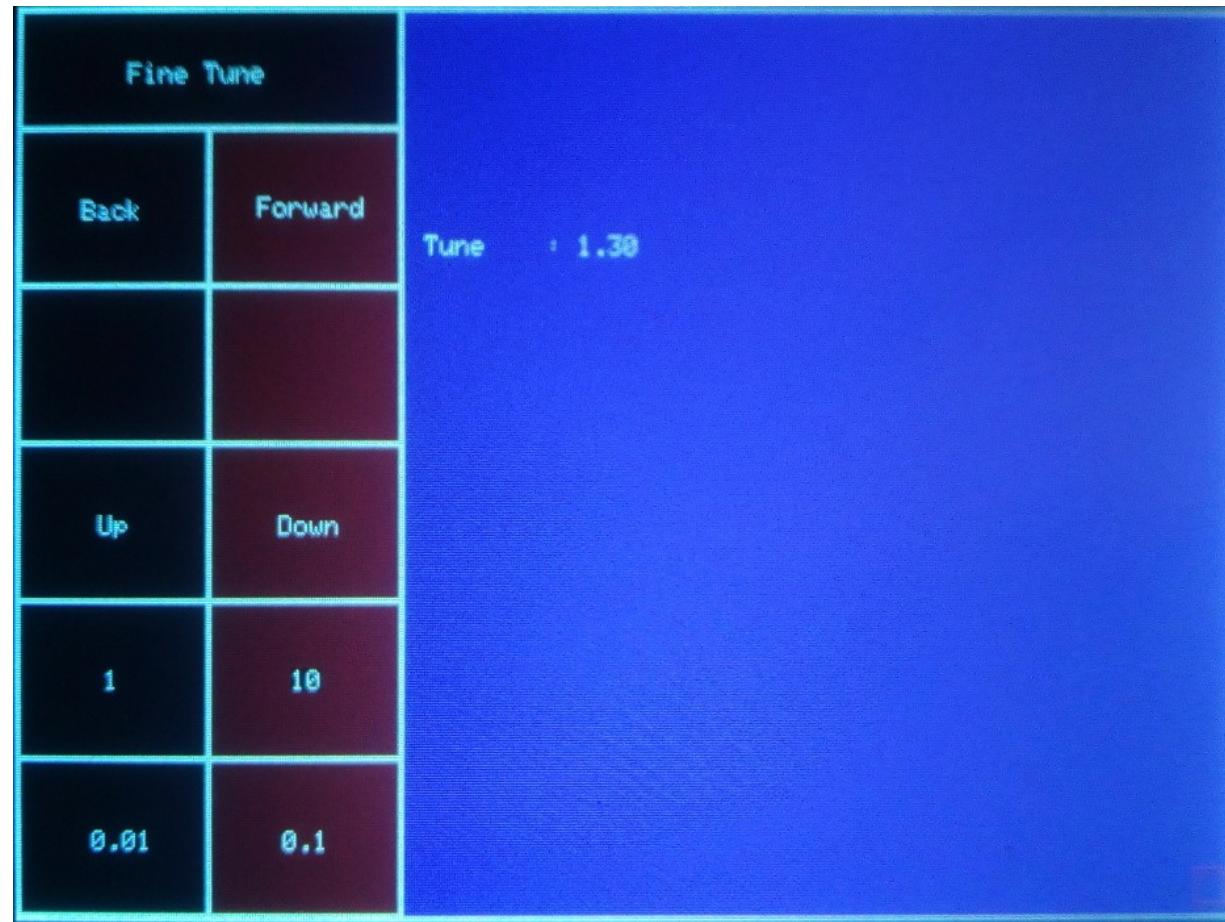
Simulation Settings



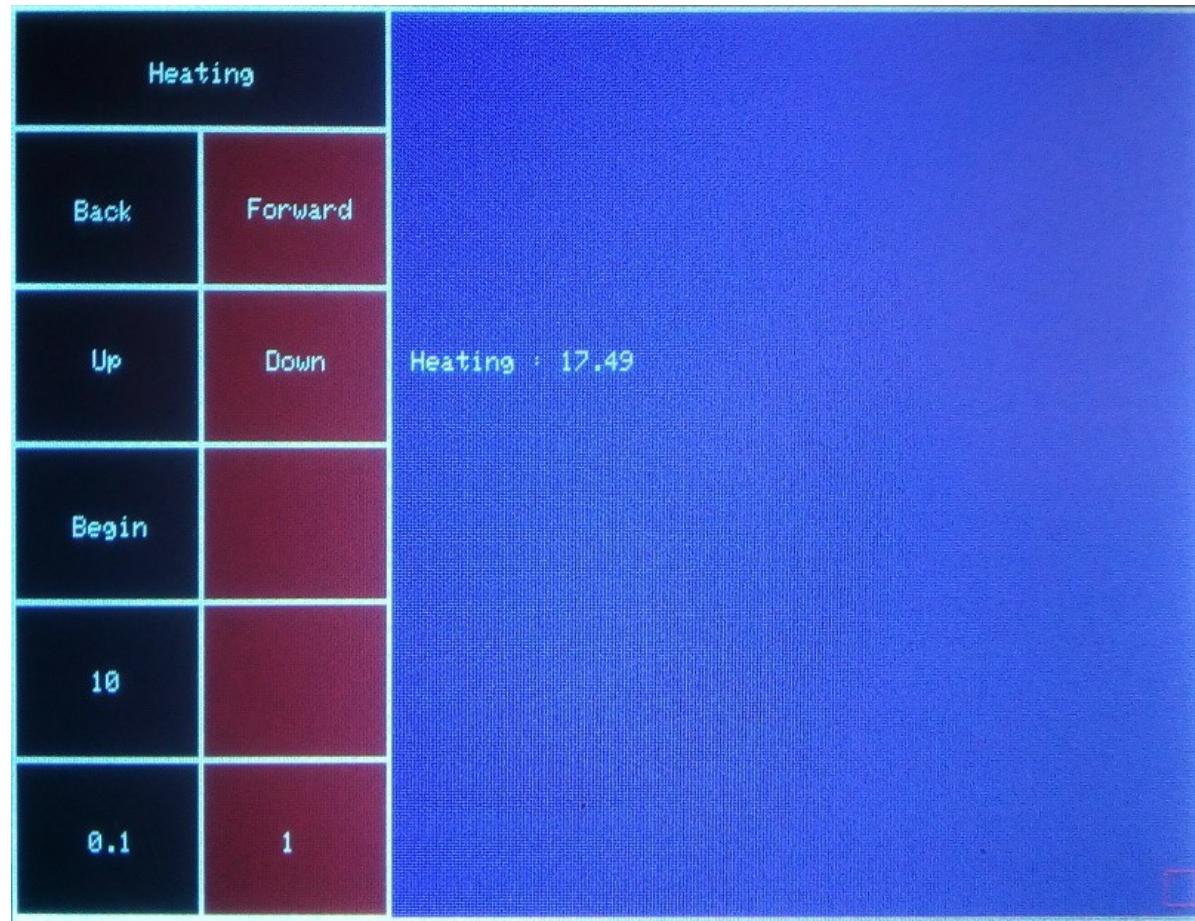
Heating/Cooling Time Period



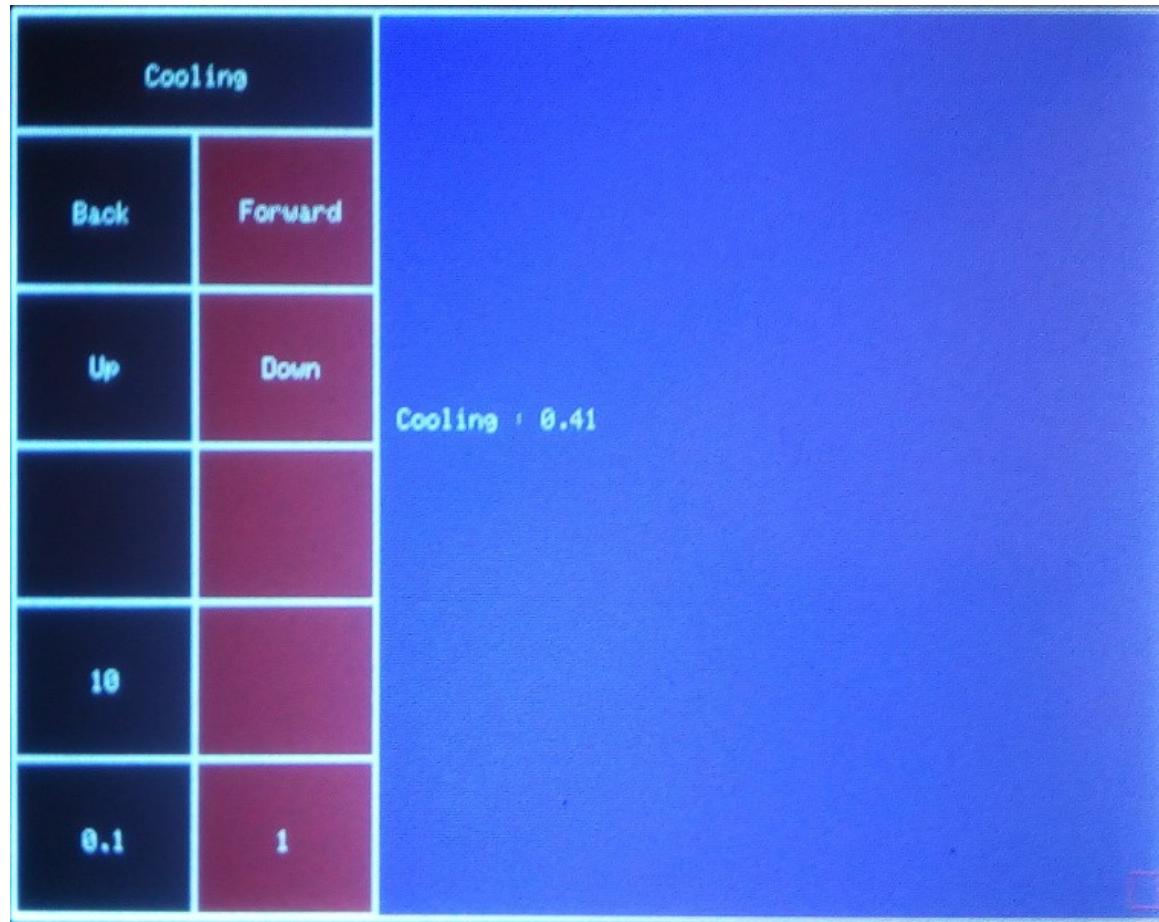
Used to Slow down loop execution
to match realtime values.



Set Vessel Heating Characteristics



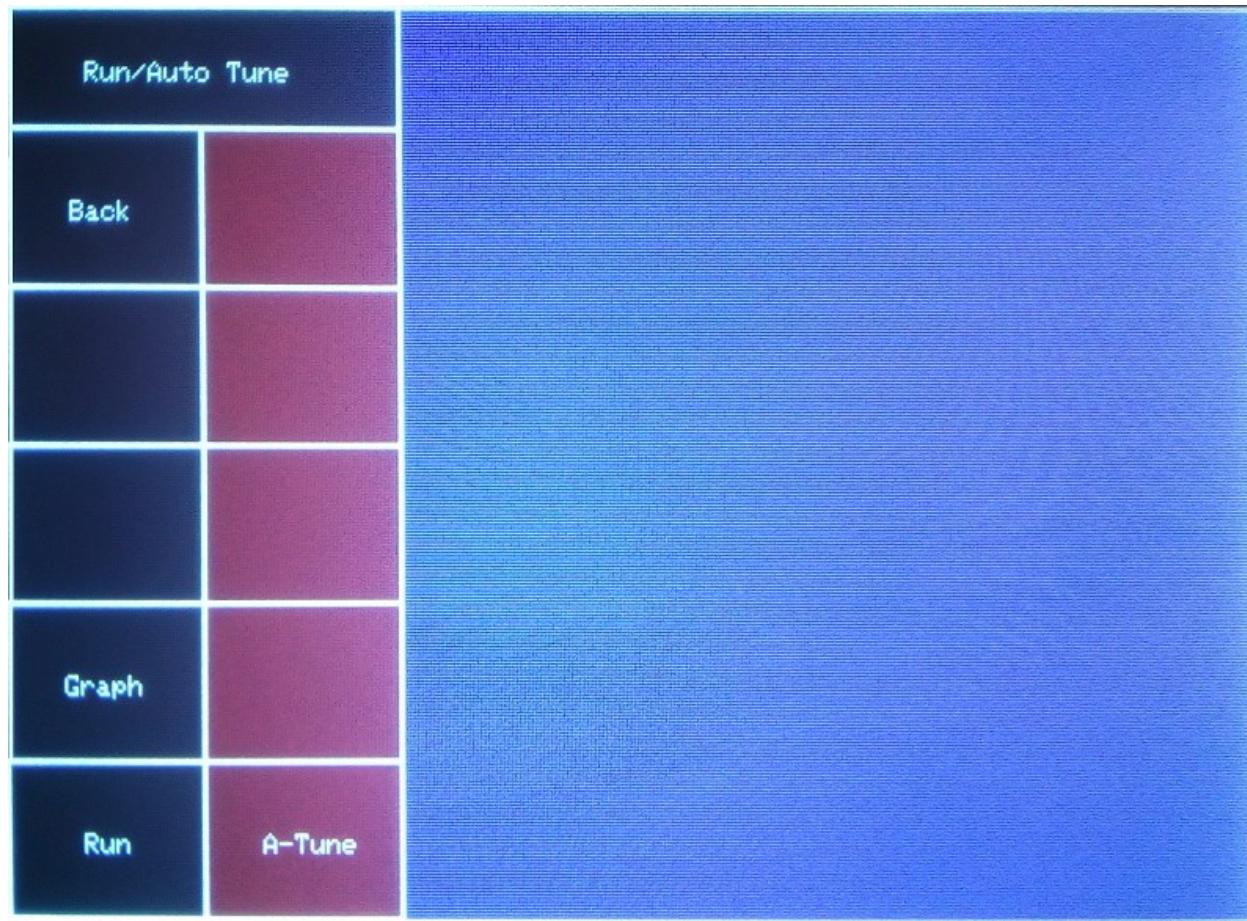
Set Vessel Cooling Characteristics



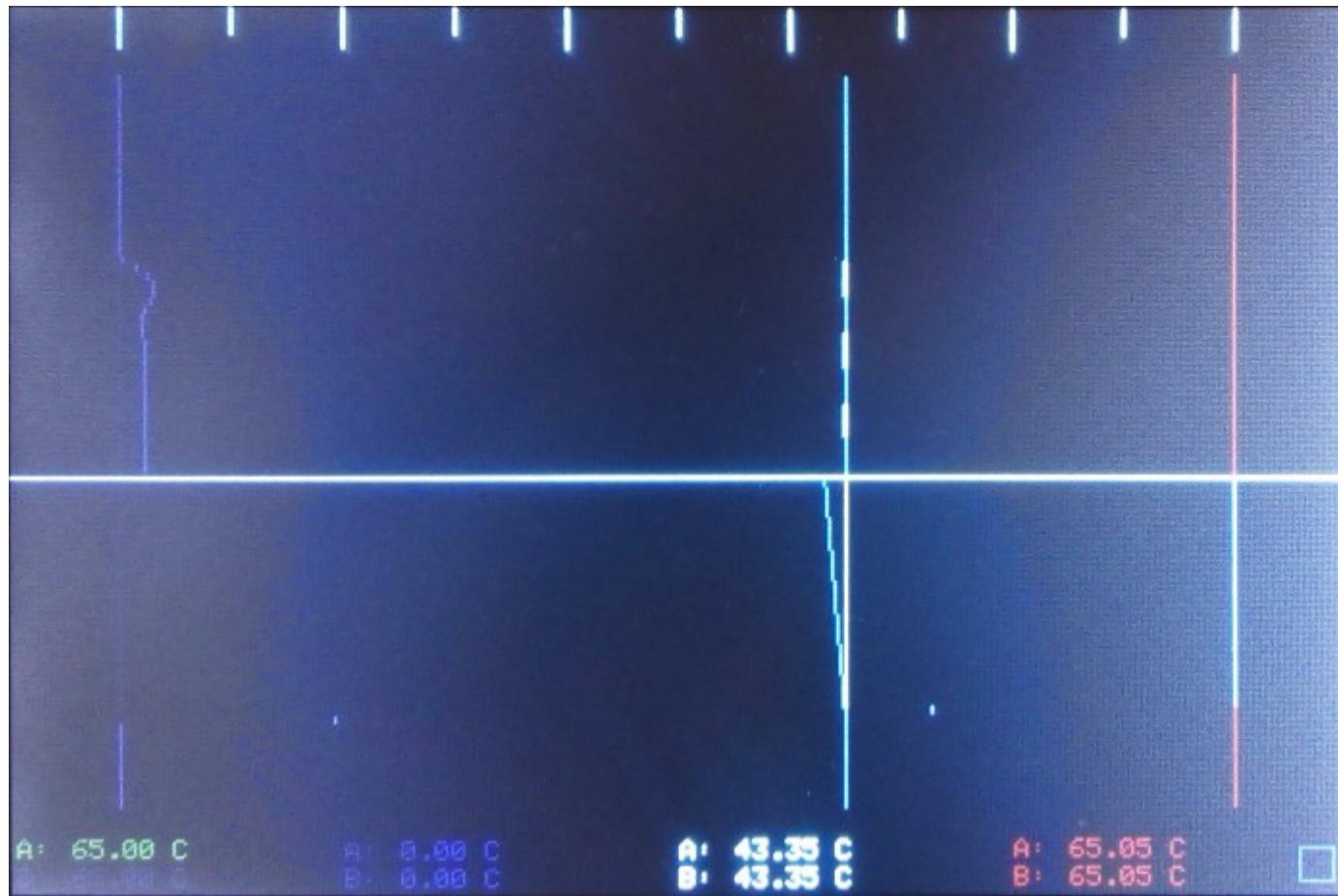
Favourites

Favourites		SP : 65.00 C SP Pos : 0 Kp : 1224.00 Ki : 2524.50 Kd : 1198.50
Back	Forward	Count Down Timer : 90 Mins
74C	100C	
67C	68C	
65C	66C	
63C	64C	

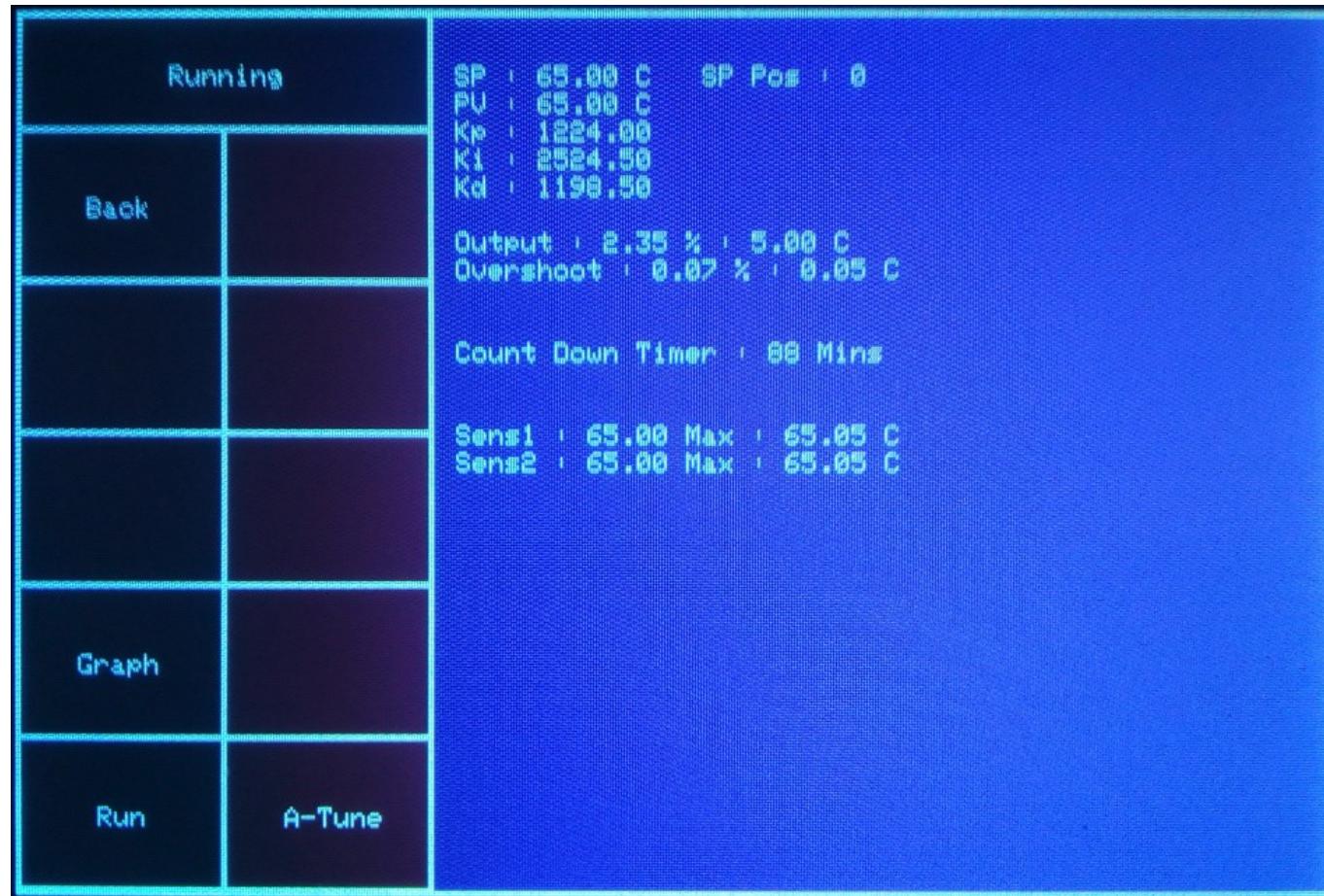
Select PID Function



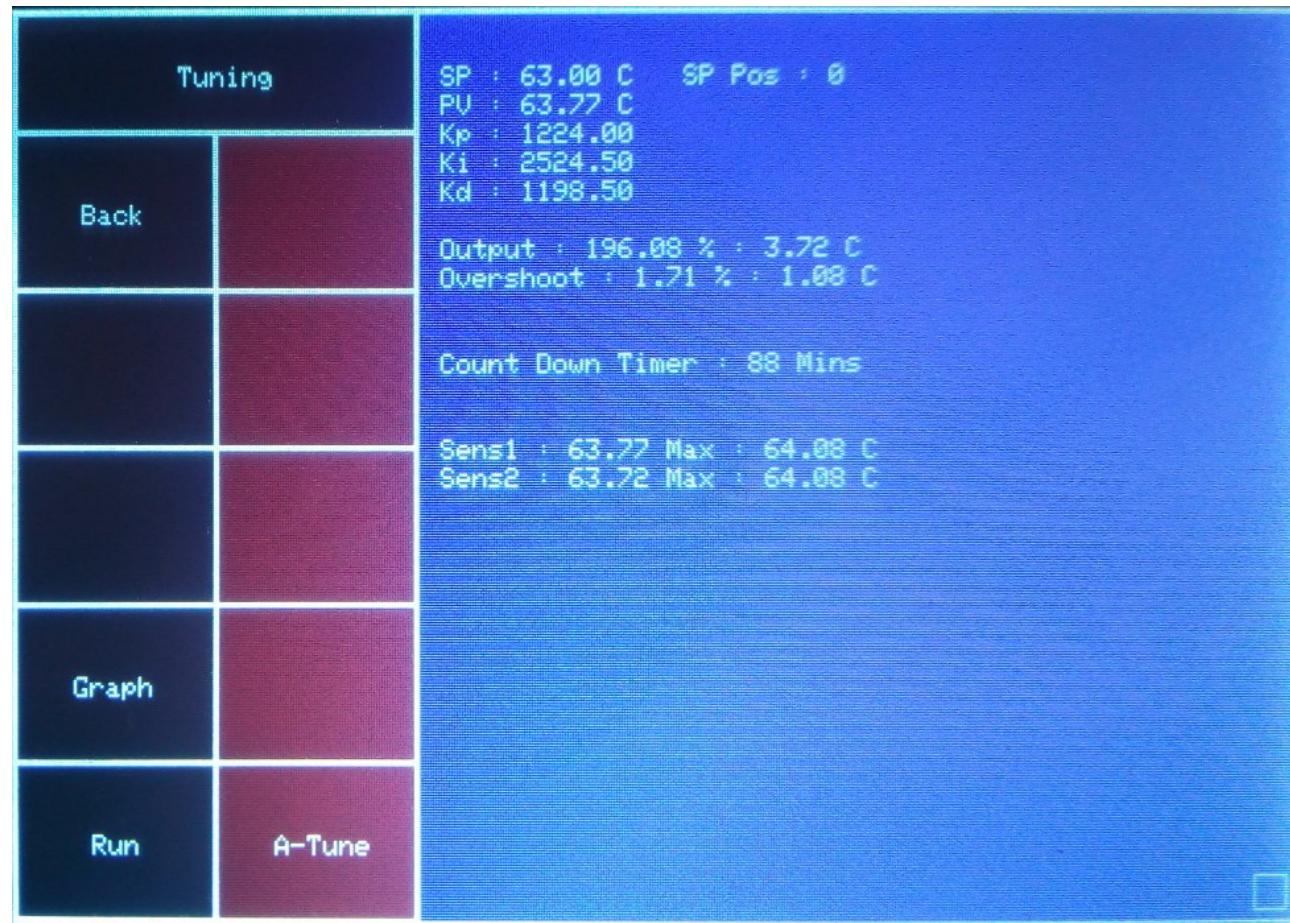
PID Graph Function



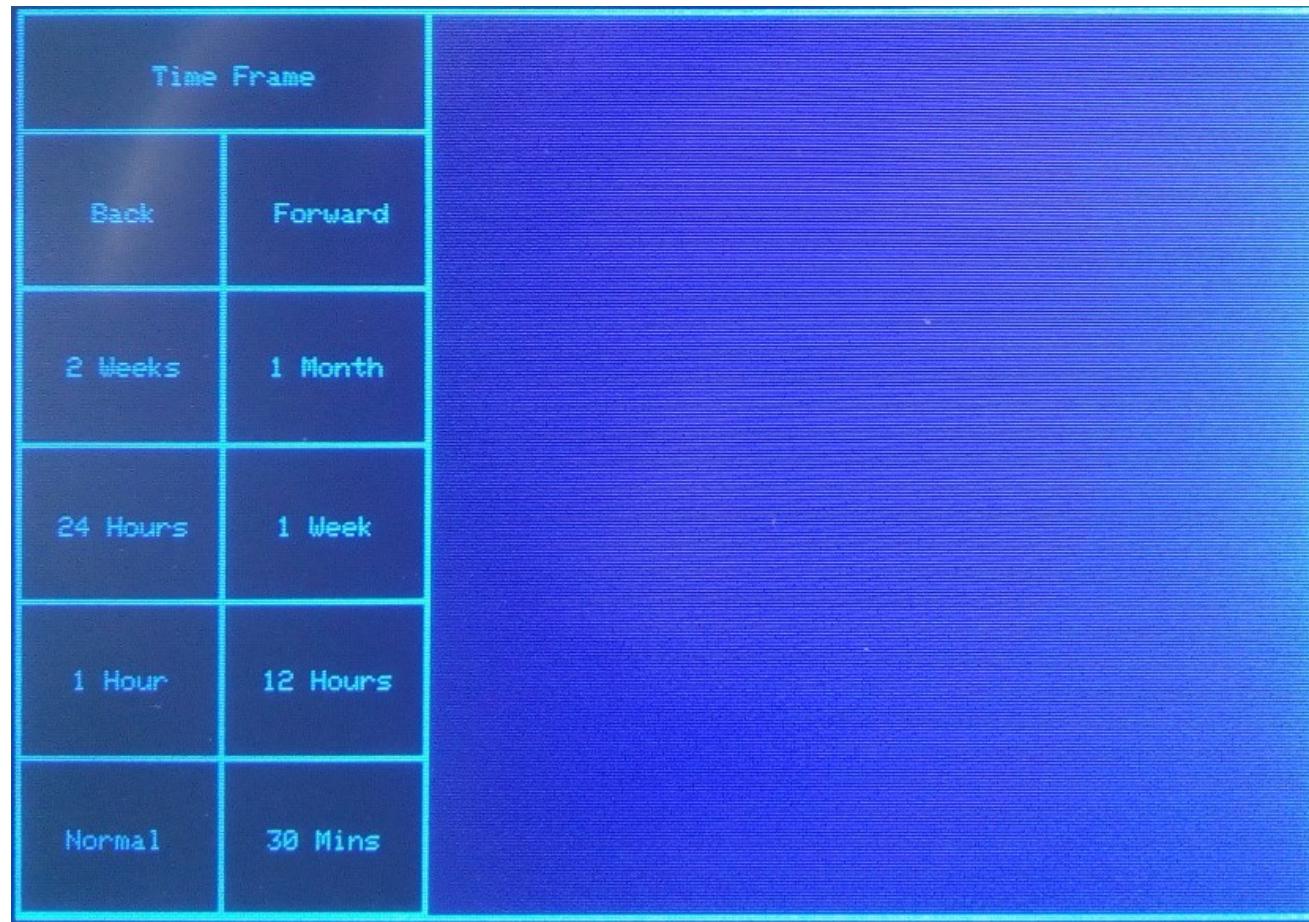
PID Run Screen



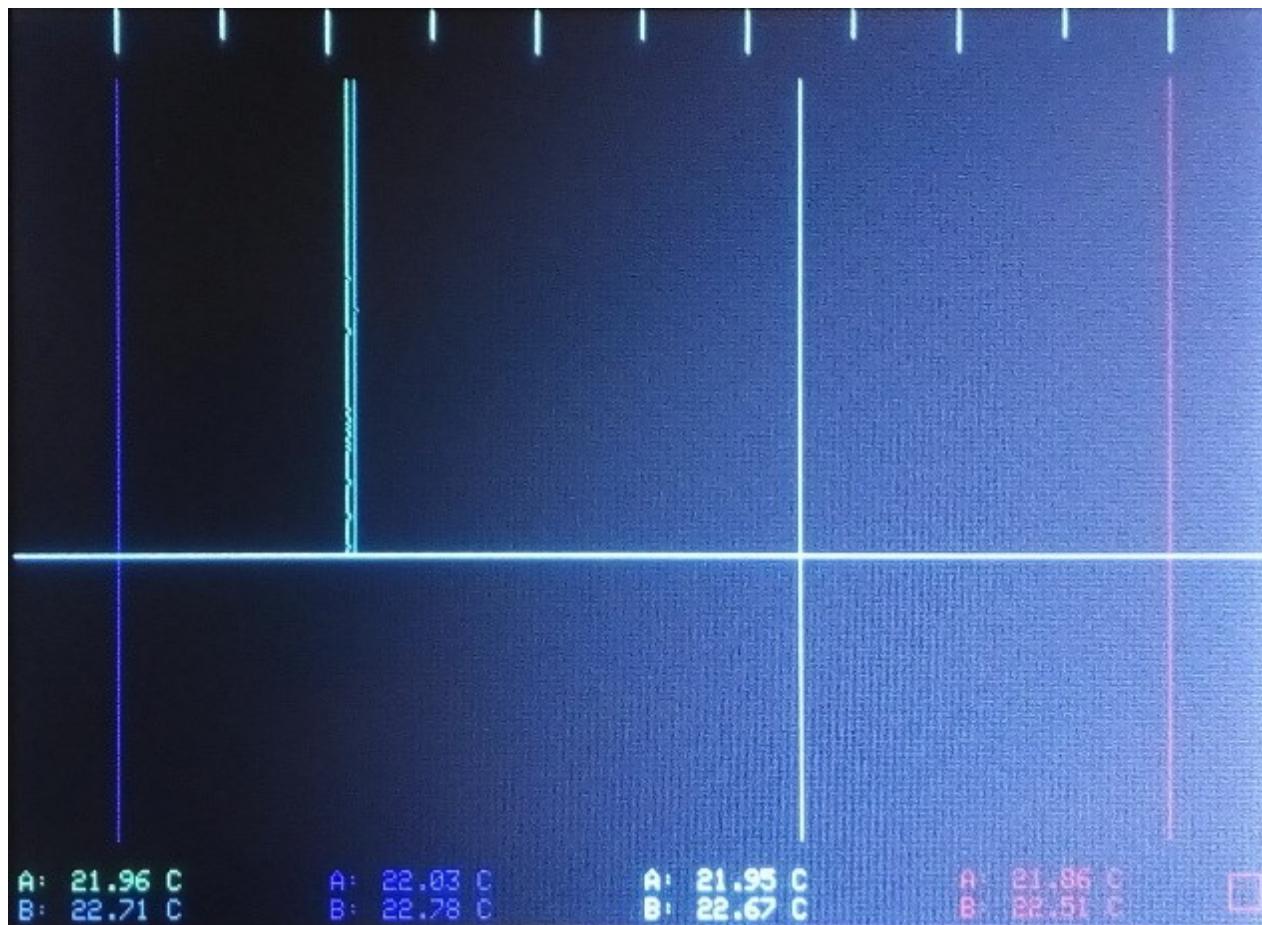
PID Self Tuning Screen



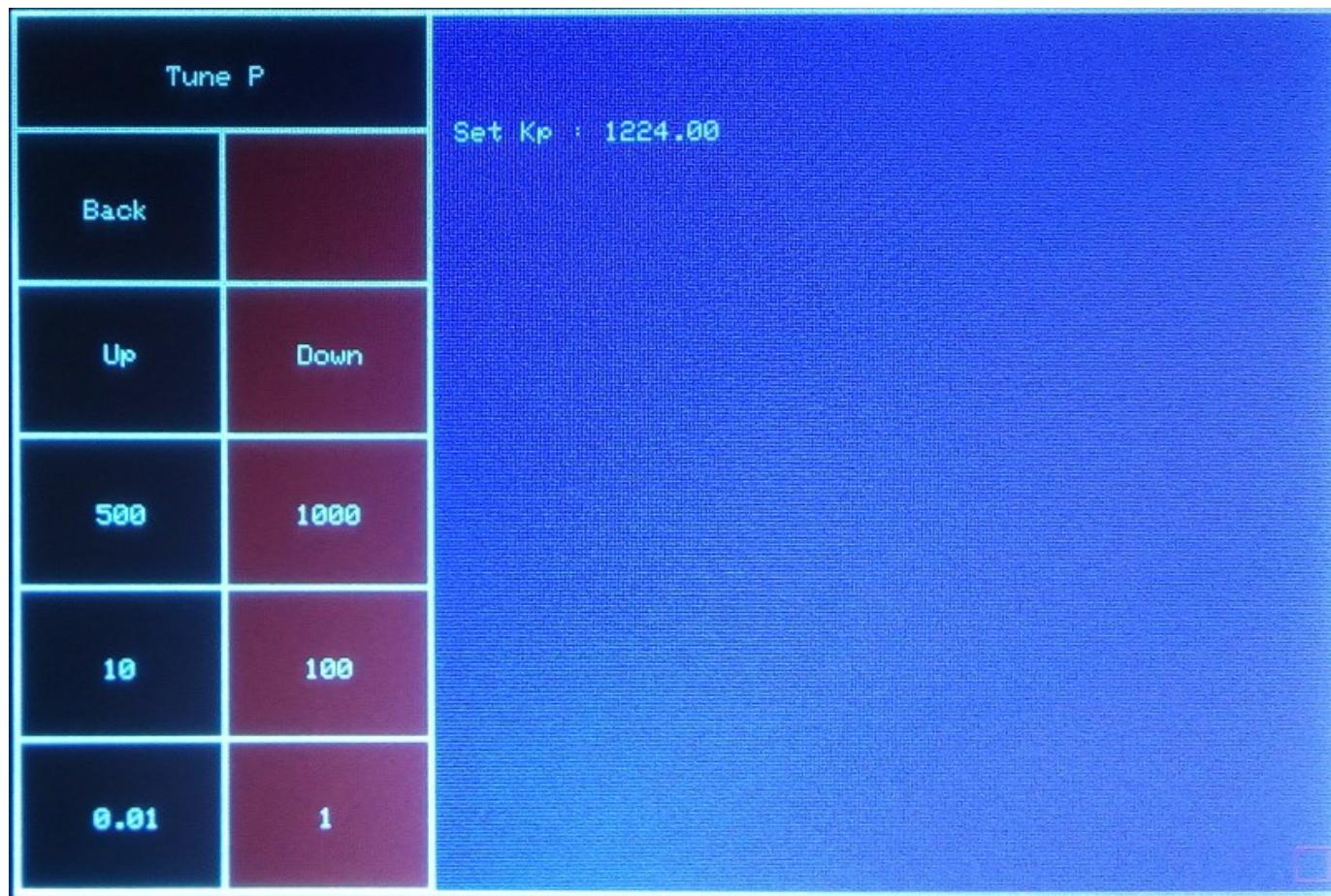
Set Graph Time Period



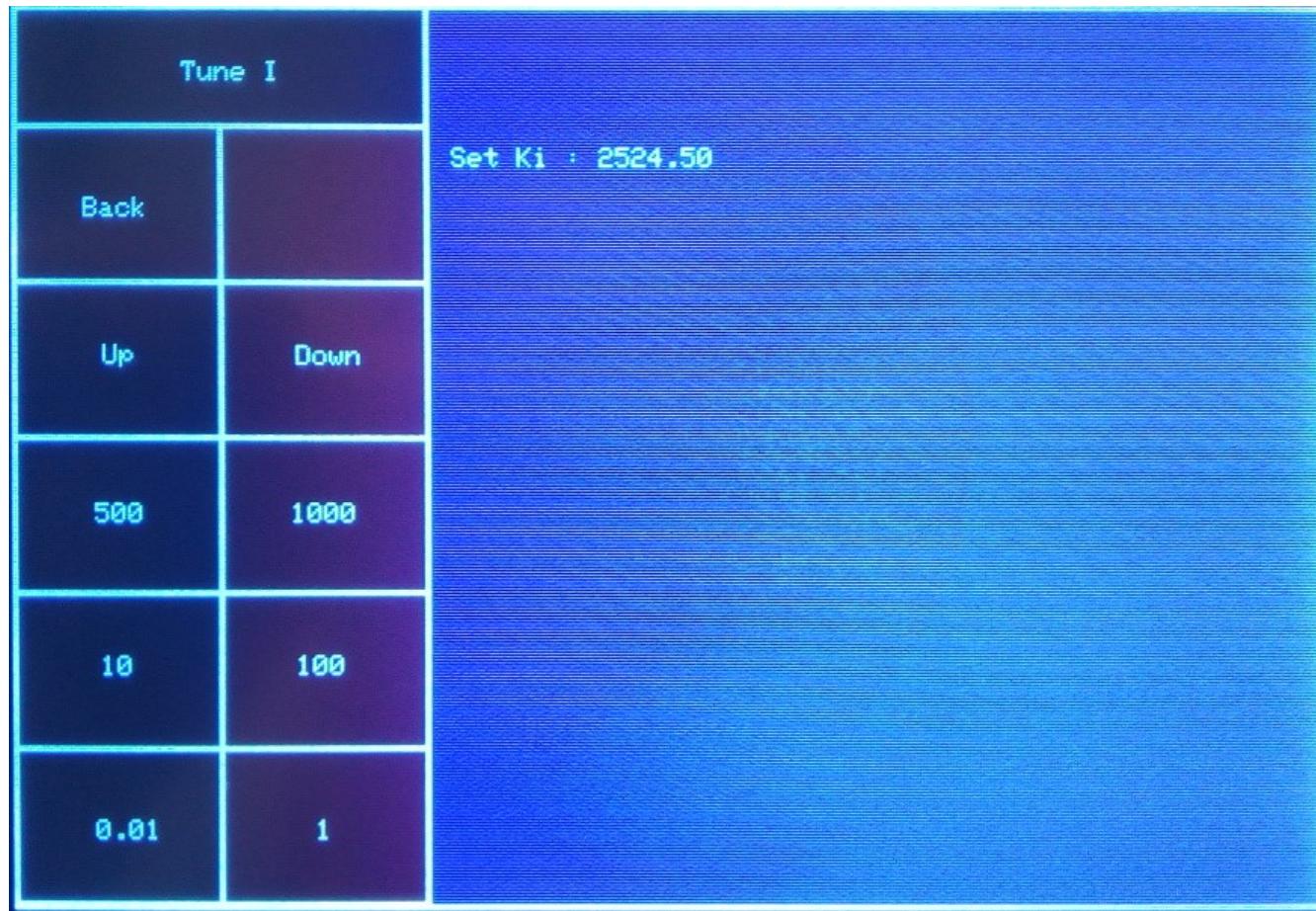
Temperature Graph Function



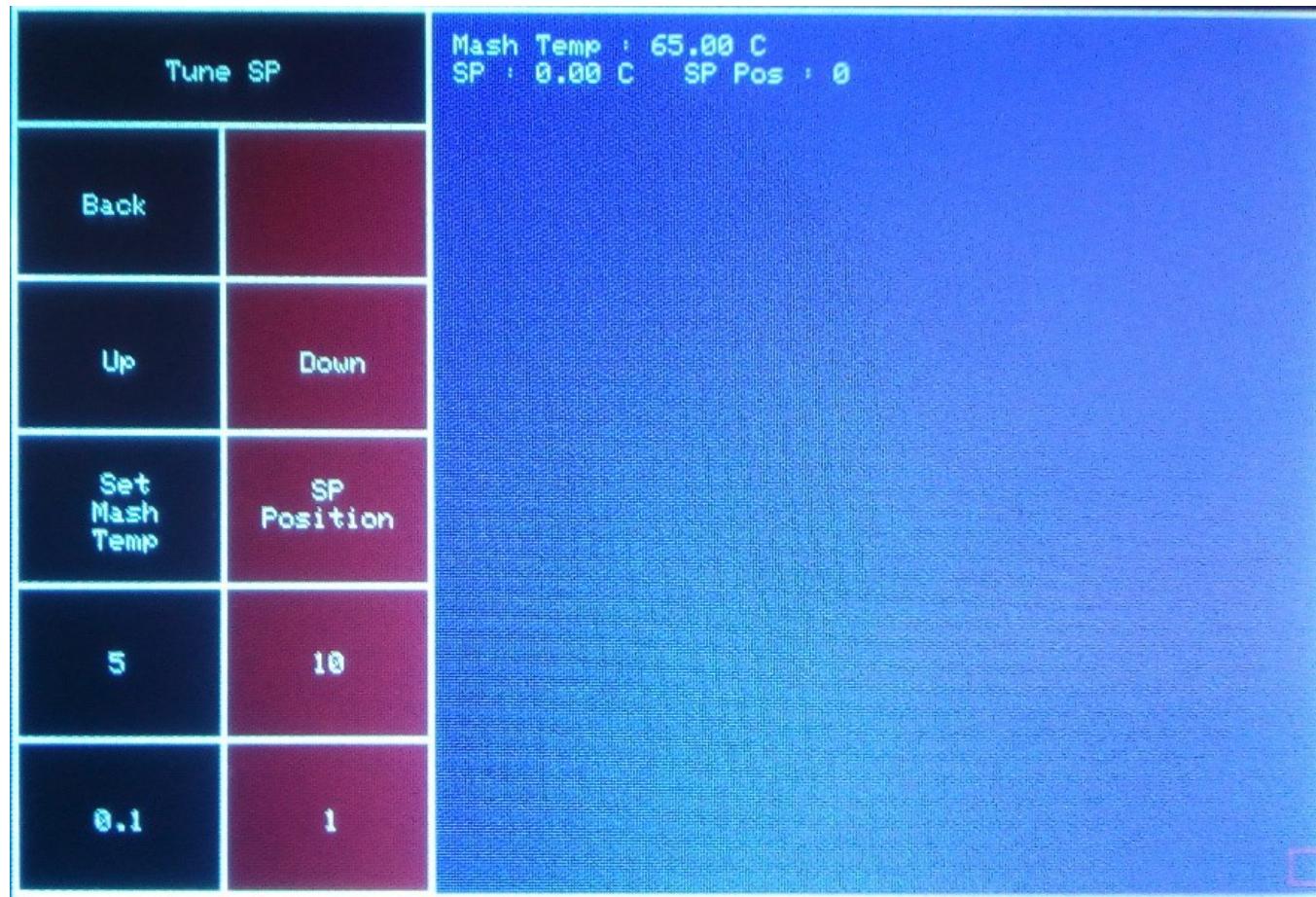
Set Proportional



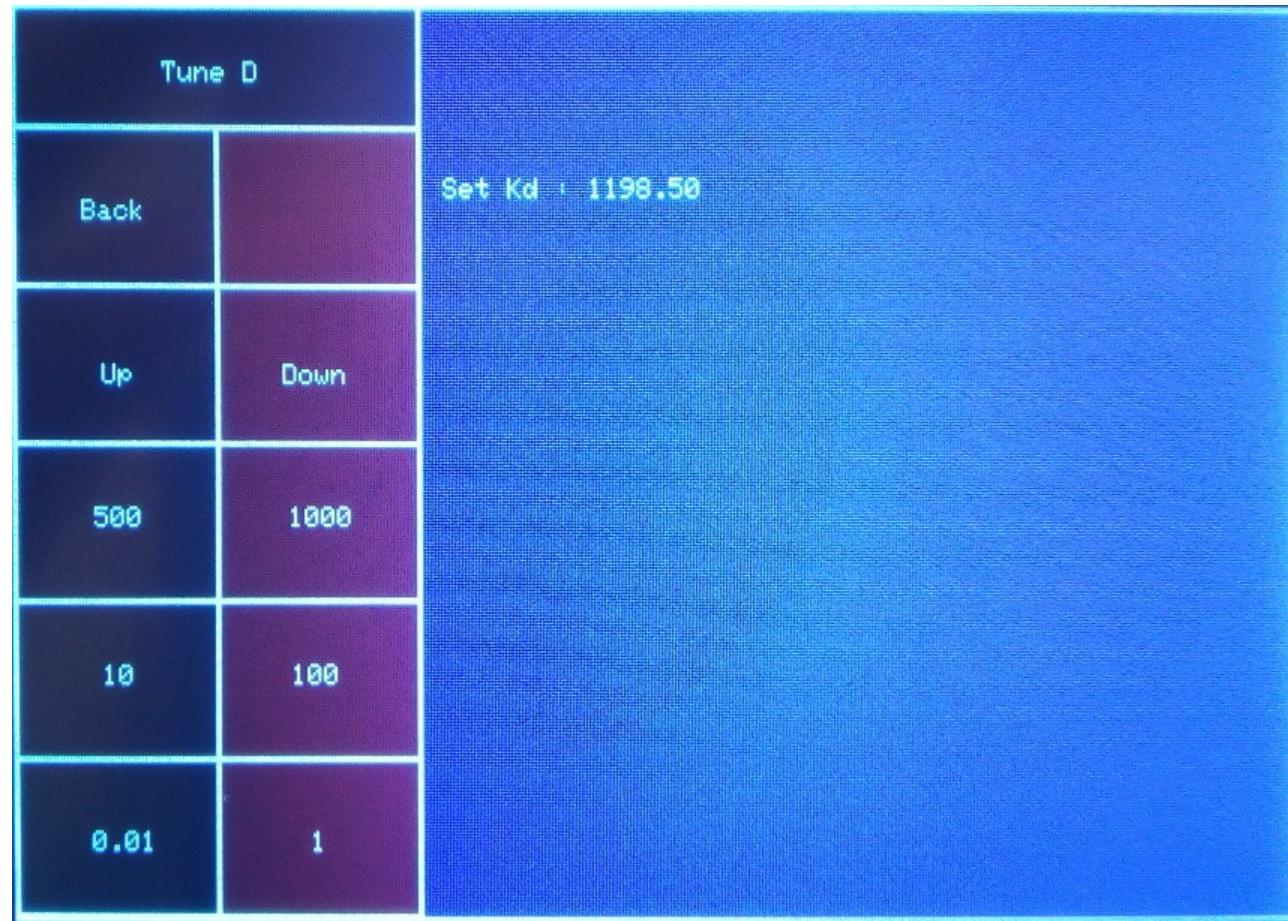
Set Integral



Set Point Selection



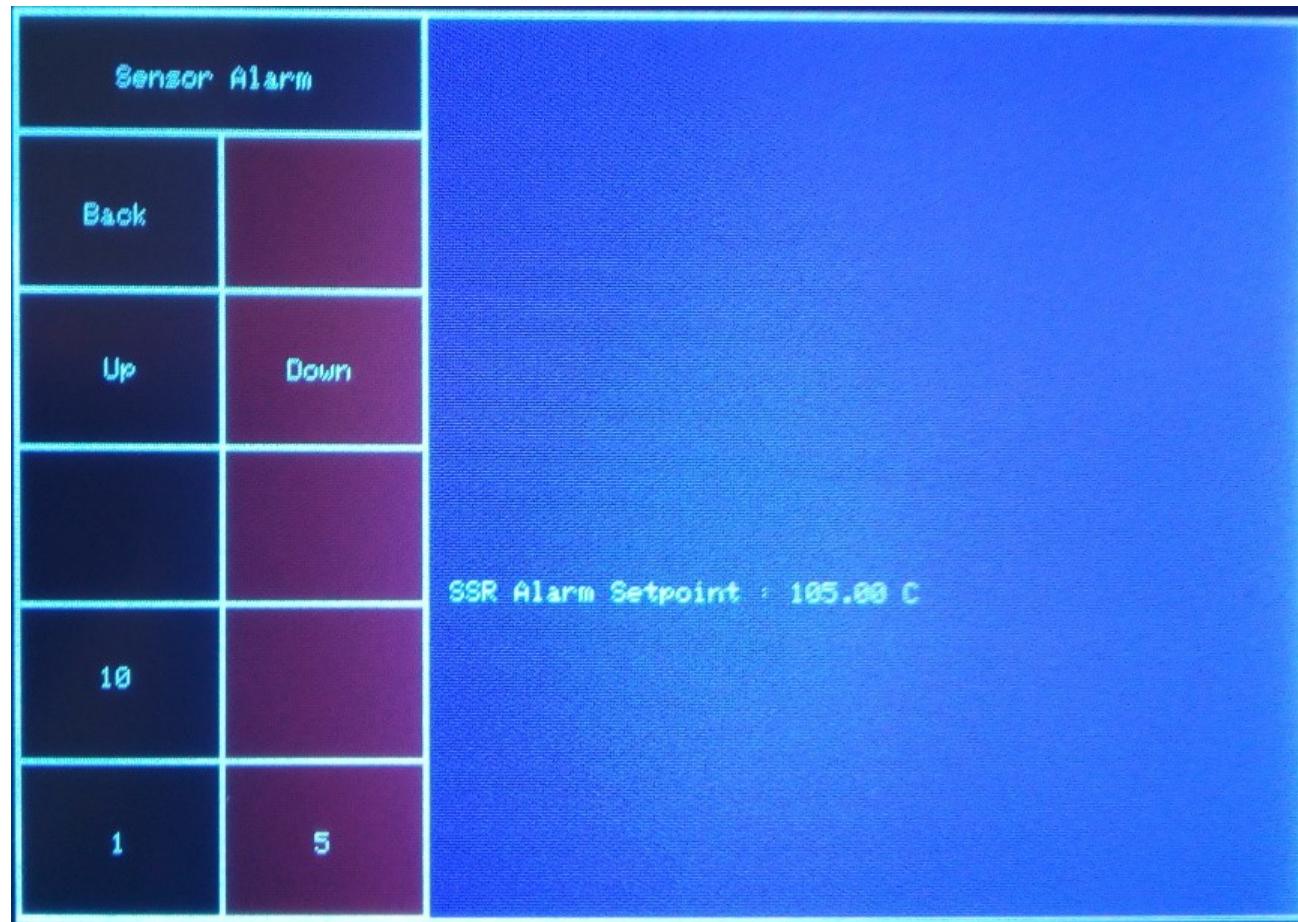
Set Derivative



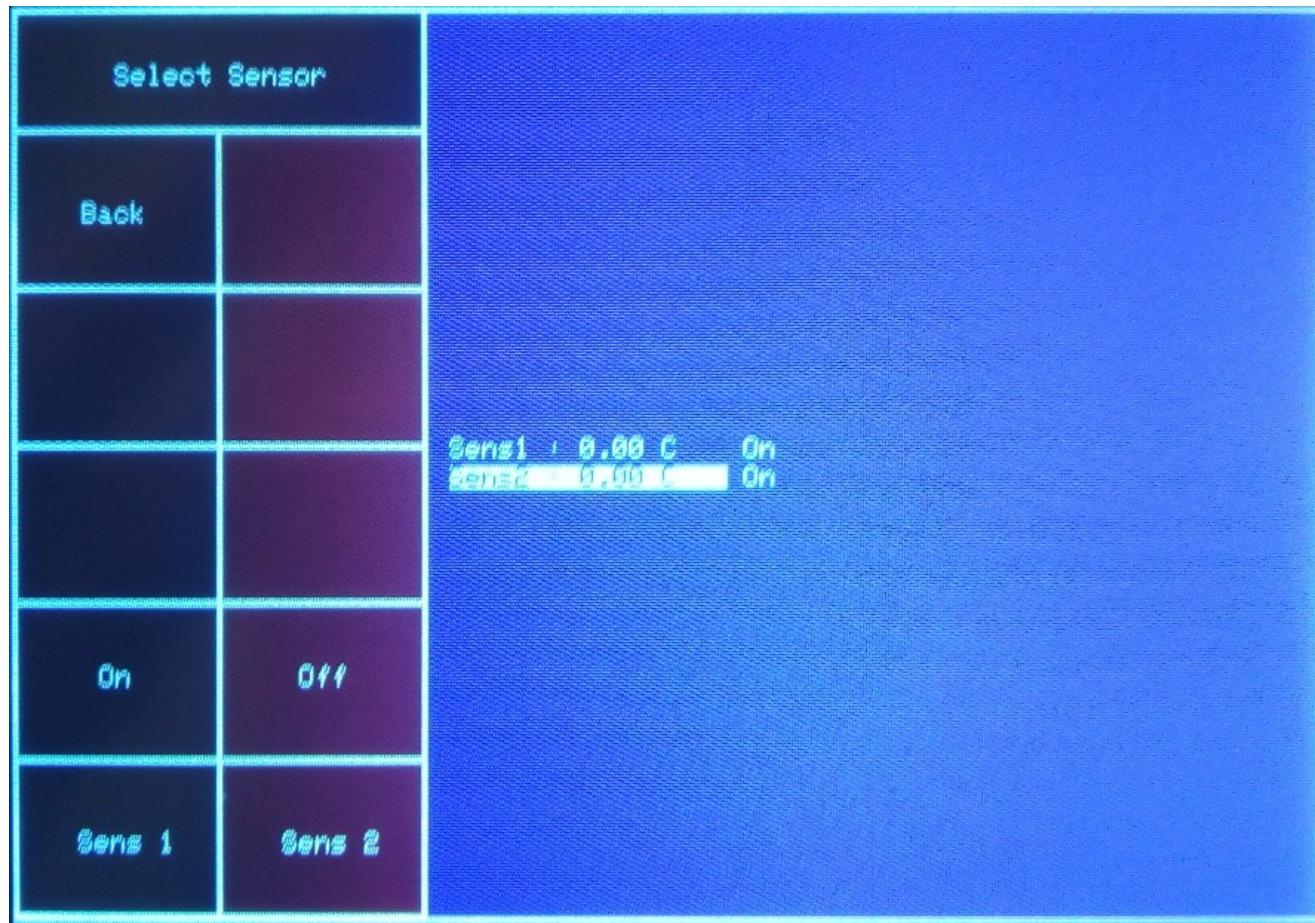
Timer Screen



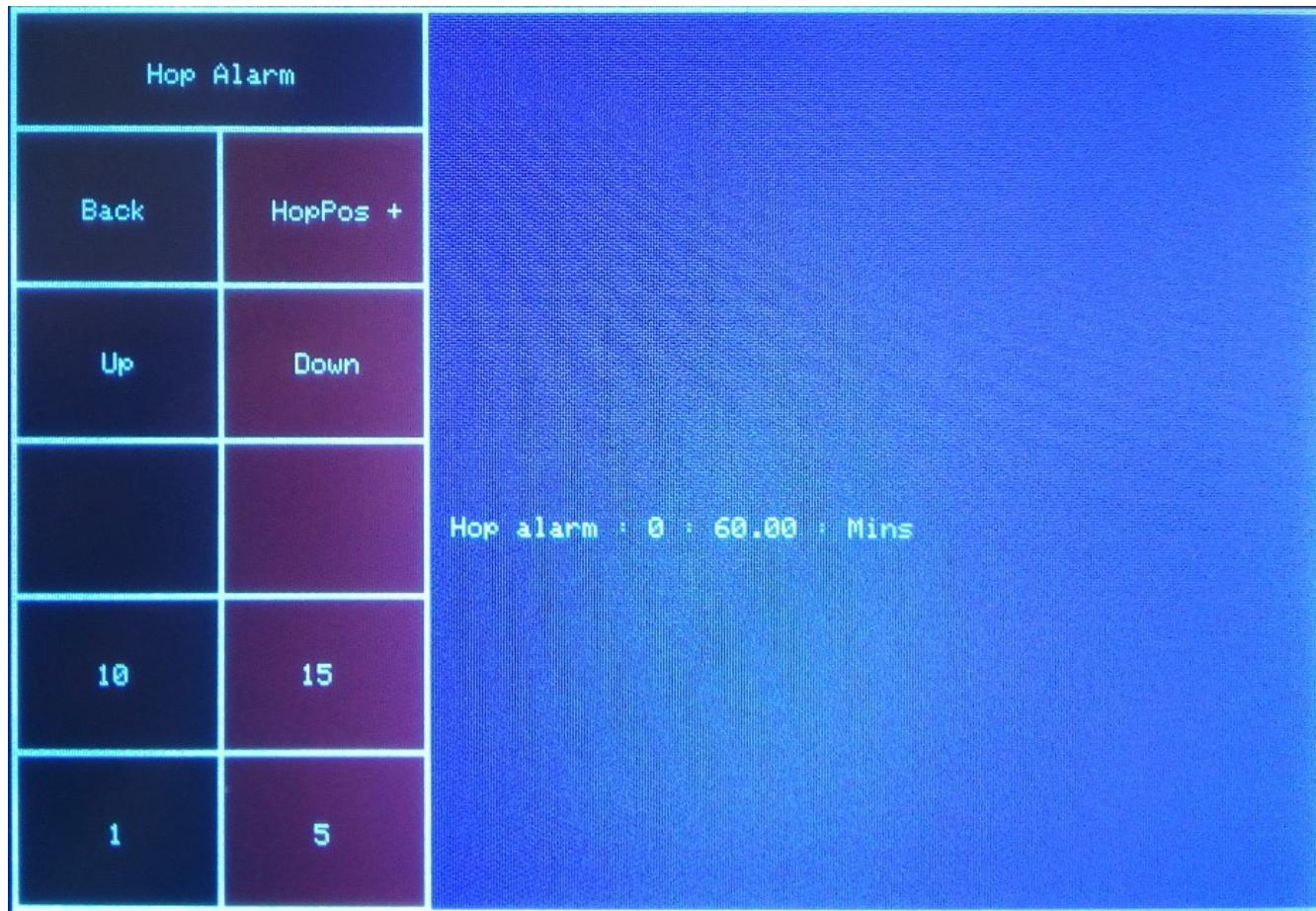
Used to Measure Temperature of Solid State Relay



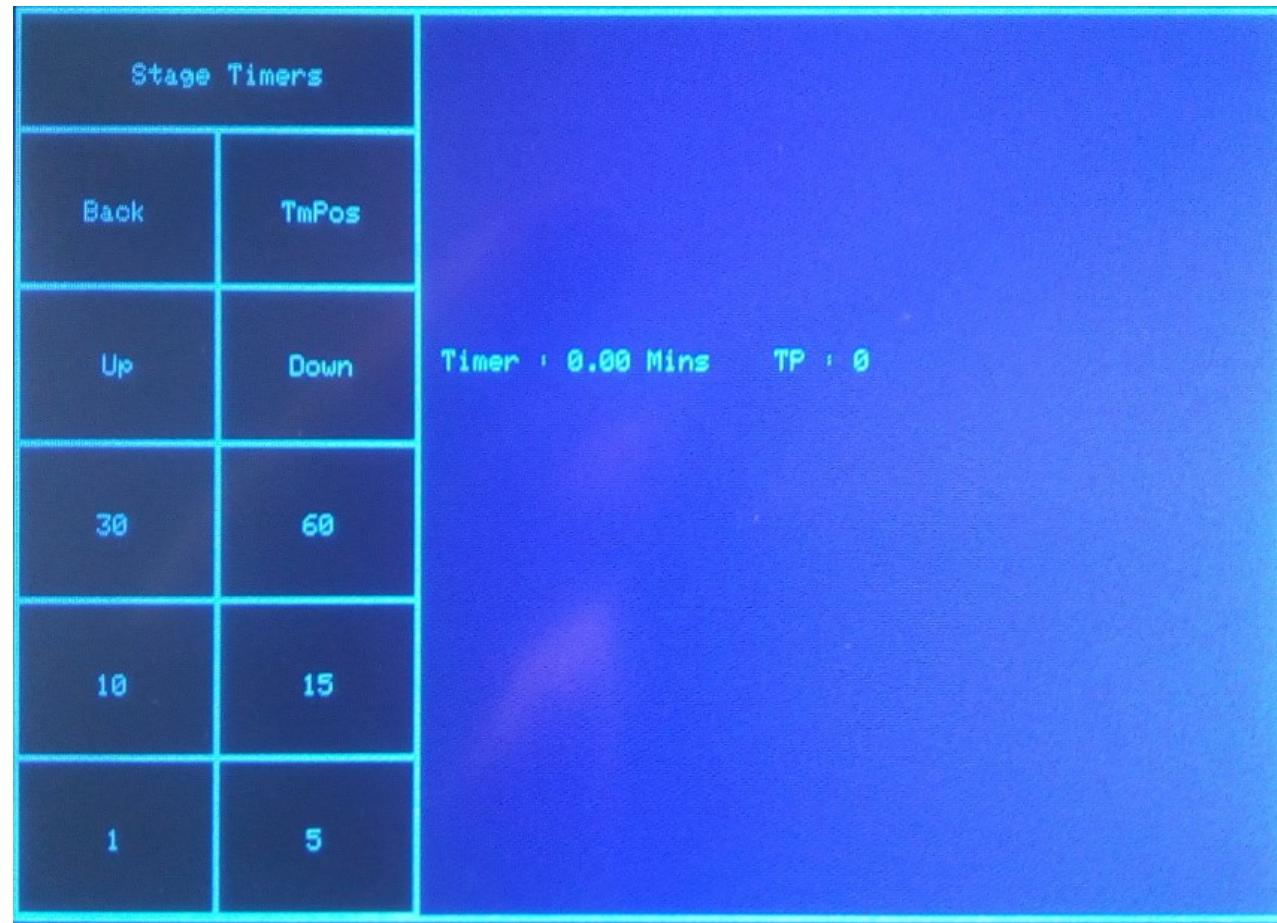
Select Sensor Set On/Off for Simulations



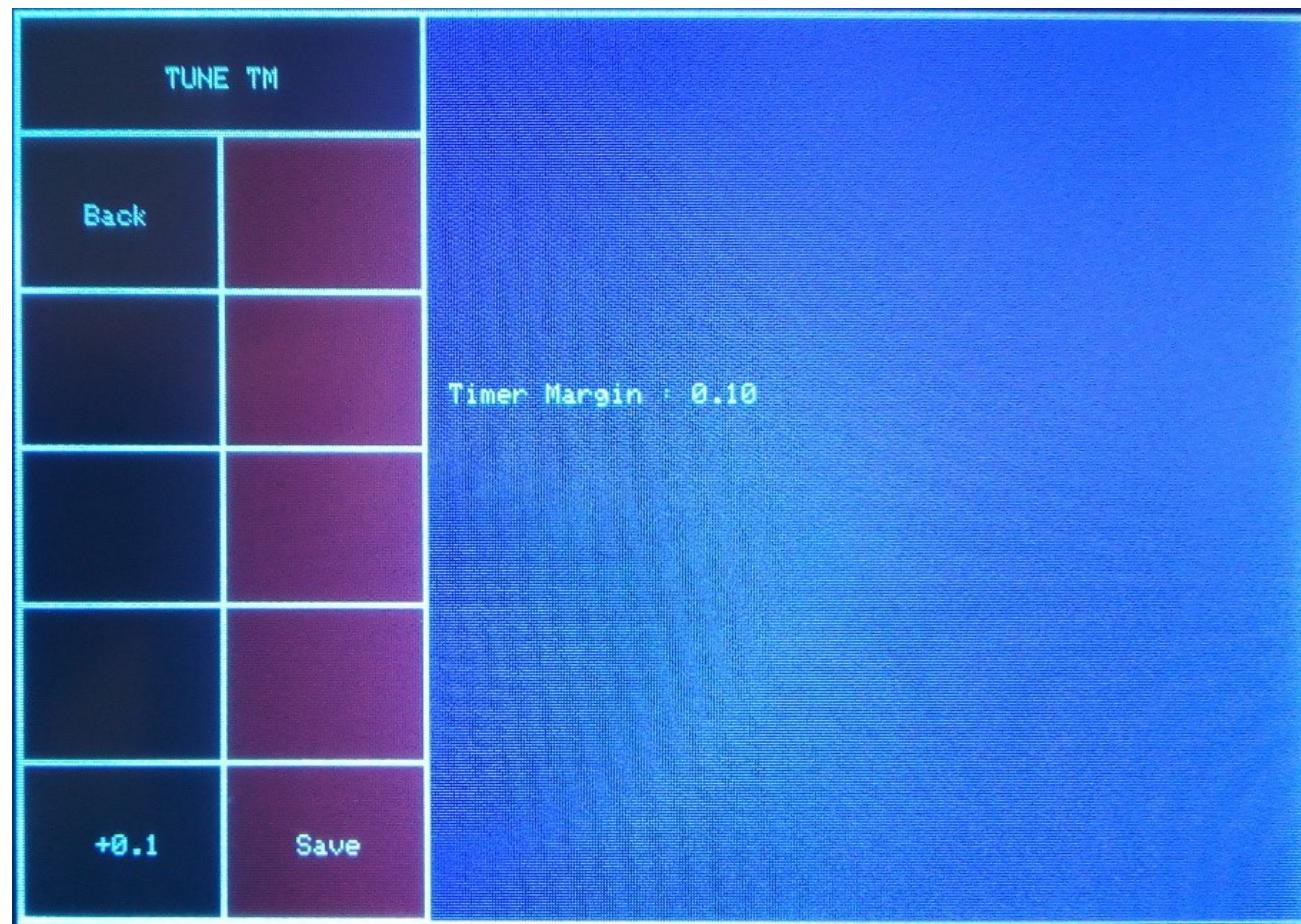
Hop Addition Timers



Set Period for the 6 timers



Set timer offset margin



How it all goes together

