

OFF (Initial State)

Mode Button Pressed

HEAT

Mode Button Pressed

COOL

LCD Behavior: • Line 1: Date + Time • Line 2  
alternates: - Temp: XX°F - STATE SP:XX •  
Alternates every 5 cycles

UART Behavior: Every 30 seconds send:  
state,currentTemp,setPoint

Set Point Buttons: • GPIO 25 → Increase SP •  
GPIO 12 → Decrease SP Triggers  
updateLights()