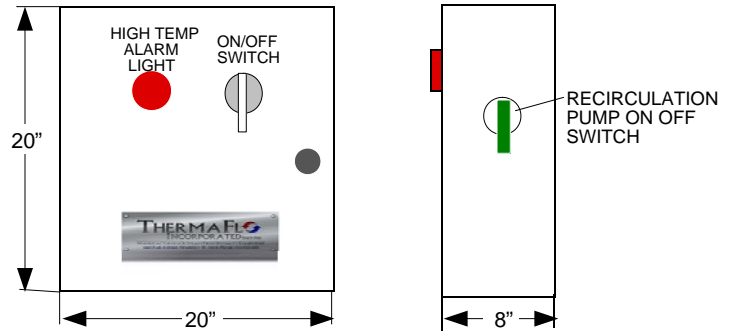


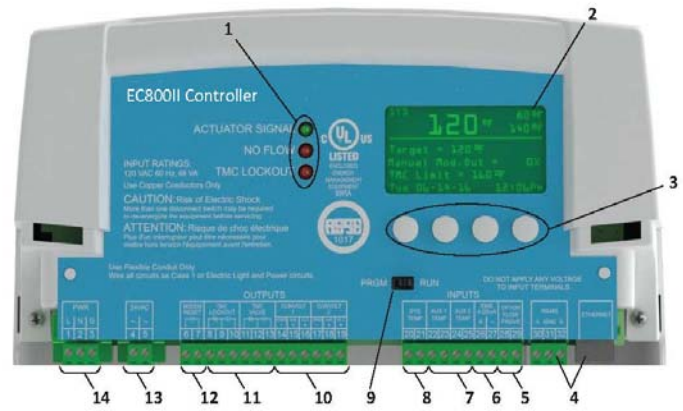


## Model EC800II BacNet Electronic Temperature Controller

### Specifications and Dimensions



### EC800II CONTROLLER PANEL DISPLAY



The Thermaflo Engineering EC-800II Electronic Digital Controller combines full PID electronic controls, with setpoint indication, safety shutdowns, and alarms in one compact enclosure that is simple to install with any Thermaflo TH750/500/or 250 Series Water Heaters. The baked enamel finish NEMA 4 UL enclosure provides easy access, mounting, and protection for the instruments. The EC800II features programmable setpoints of outlet water temperature, alarms, remote control, automatic shutdown on power failure and high temperature alarms, all controllable front digital key pad display or optional BACnet. Controls temperature ONLY.

All Thermaflo EC800II controllers are factory preset for your application so on site startup is simple and easy with no long instruction manuals to take hours calibrating and setting up.

#### Standard Features include:

- ➔ Digital Keypad Setpoint of Outlet Temperature
- ➔ Digital Keypad Setpoint of High Temperature Alarm and Shutdown
- ➔ Optional BacNet MSTP Full Outputs or Remote EMS Control Modbus and Lonworks Programmable
- ➔ High Temperature Alarm Indicator Light
- ➔ High Temperature Lockout Function for Safety
- ➔ Recirculation Pump On Off Switch
- ➔ No Flow Lockout Function Option
- ➔ 1/3 2/3 Temperature Control Valve PID Loop Control
- ➔ UL 508 Certified Completely Wired Panel
- ➔ Single Point 120V/1/60hz Power

- 1 Output Status Lights (High Temperature/ No Flow/ Control Signal)
- 2 Digital Display of Setpoint/Actual Temperature/ Output %
- 3 Variable Function Buttons for Setpoints and PID Tuning
- 4 BACnet Remote Control Connection and Outputs
- 5,6,7,8 Sensor Inputs for Temperature and Flow
- 9 Programming Mode Switch
- 10 Electronic Control Valve Output Signal 0-10 or 4-20ma
- 11,12,13,14 Power and Alarm Function Outputs

### SPECIFICATIONS

UL 508 Certified and Listed  
 Control Signal Output: 0-10 Volt or 4-20 ma to Control Valves  
 Display: 1/8 DIN Setpoint and Process Actual Standard  
 Accuracy: +or - 1.0% of span  
 Repeatability: + or - 0.5% of Span  
 Power Requirements: 110 volt single phase  
 60 or (50) upon request hz 5 amp circuit.  
 Temperature Limits: 15F to 140F ambient  
 Enclosure: NEMA 4 UL  
 Electrical and Mounting: Two (2) Conduit Holes,  
 and four (4) back wall or enclosure mounted

Note: The EC800II Control Panel contains the 120V to 24VDC transformer to fully operate the Thermaflo JVV electronic control valve with the S80 (2022) High performance actuator.