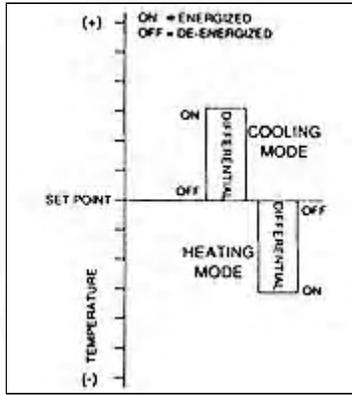


# THERMOSTAT INSTRUCTIONS

## Programming Steps and Display

The ETC can be programmed in four simple steps using the LCD display and the three keys on the face of the control.



**Step 1** - To start programming, press the SET key once to access the Fahrenheit/Celsius mode. The display will show the current status, either F for degrees Fahrenheit or C for degrees Celsius.

**Step 2** - Press the SET key again to access the set point. The LCD will display the current set point and the S1 annunciator will be blinking on and off to indicate that the control is in the set point mode. Then press either the UP key to increase or the DOWN key to decrease the set point to the desired temperature.

**Step 3** - Press the SET key again to access the differential. The LCD will display the current differential and the DIF 1 annunciator will be blinking on and off to indicate that the control is in the differential mode. Then press either the UP key to increase or the DOWN key to decrease the differential to the desired setting. Press the SET key again to access the cooling or heating mode. The LCD will display the current mode, either C1 for cooling or H1 for heating. Then press either the UP key or the DOWN key to toggle between the C1 or H1 designation. Press the SET key once more and programming is complete.

**Step 4** - Press the SET key again to access the cooling or heating mode. The LCD will display the current mode, either C1 for cooling or H1 for heating. Then press either the UP key or the DOWN key to toggle between the C1 or H1 designation. Press the SET key once more and programming is complete.

Annunciator	Description	Display
F or C	Fahrenheit or Celsius Scale	F
S1 (blinking)	Setpoint Temperature	70
DIF 1 (blinking)	Differential Temperature	5
C1/H1	Cooling or Heating Mode	C1

**NOTE:** The

ETC will automatically end programming if no keys are depressed for a period of thirty seconds. Any settings that have been input to the control will be accepted at that point. All control settings are retained in non-volatile memory if power to ETC is interrupted for any reason. Reprogramming is not necessary after power outages or disconnects unless different control settings are required.

## Lockout Switch

The ETC is provided with a lockout switch to prevent tampering by unauthorized personnel. When placed in the LOCK position, the keypad is disabled and no changes to the settings can be made. When placed in the UNLOCK position, the keypad will function normally. To access the lockout switch, disconnect the power supply and open the control. The switch is located on the inside cover about 2 inches above the bottom. (see Figure 2). To disable the keypad, slide the switch to the left LOCK position. To enable the keypad, slide the switch to the right UNLOCK position. All ETC controls are shipped with this switch in the UNLOCK position.

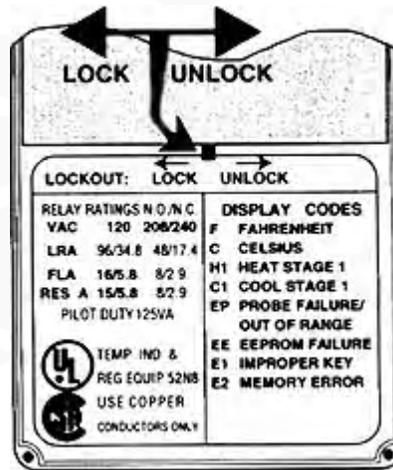


Figure 2: Lockout Switch

## TROUBLESHOOTING ERROR MESSAGES

### Display Messages:

**E1**- Appears when either the UP or DOWN key is pressed when not in the programming mode. To correct: If the E1 message appears even when no keys are being pressed, replace the control.

**E2**- Appears if the control settings are not properly stored in memory. To correct: Check all settings and correct if necessary.

**EP**- Appears when the probe is open, shorted or sensing a temperature that is out of range. To correct: Check to see if the sensed temperature is out of range. If not, check for probe damage by comparing it to a known ambient temperature between -30°F and 220 °F. Replace the probe if necessary.

**EE**- Appears if the EEPROM data has been corrupted. To correct: This condition cannot be field repaired. Replace the control.

**CL**- Appears if calibration mode has been entered. To correct: Remove power to the control for at least five seconds. If the CL message still appears, replace the control.