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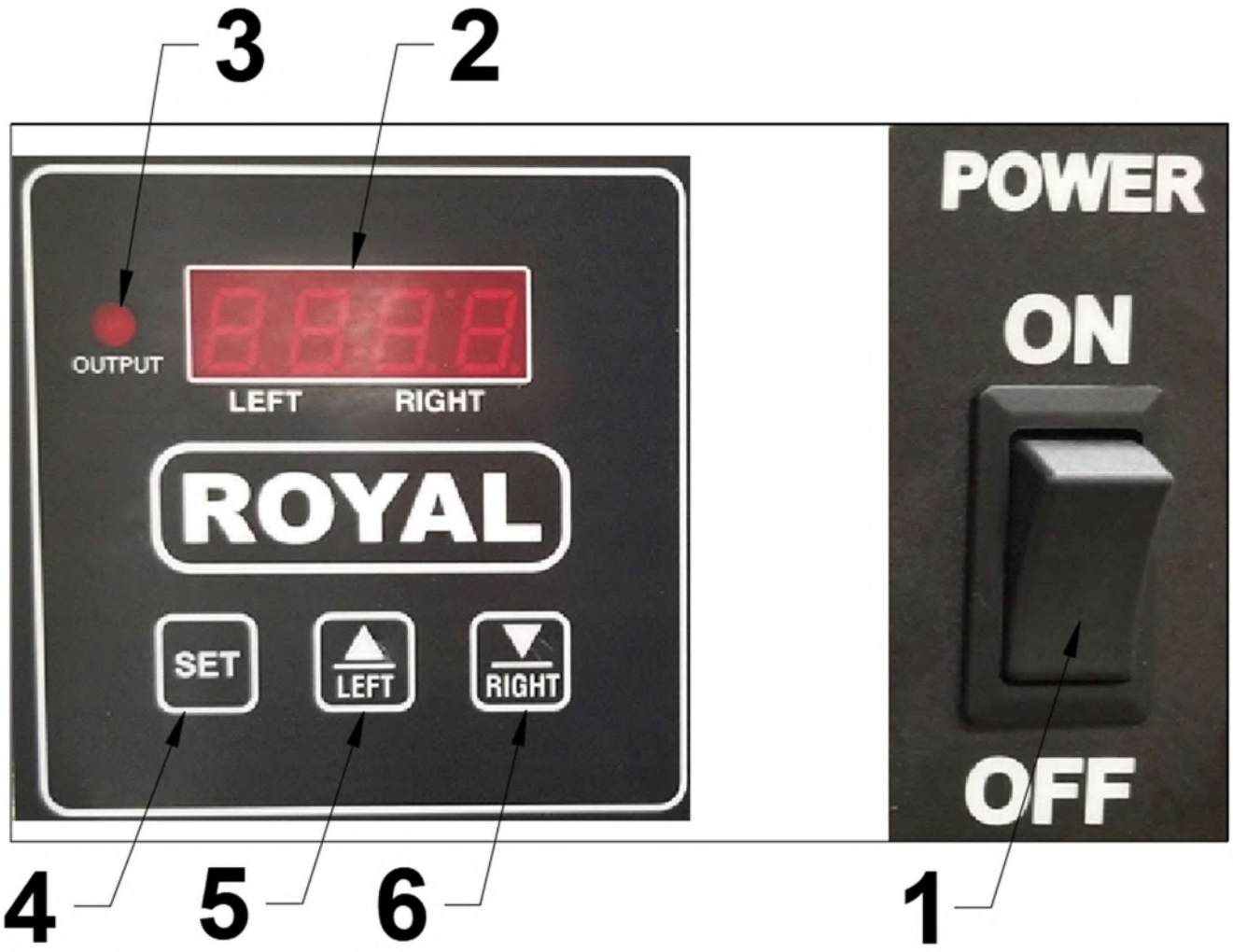
CONTROL PANEL DESCRIPTIONS



1. **POWER SWITCH**
   Main Power.

2. **DISPLAY**
   Displays modes, functions, and operation of the controller.

3. **HEAT DEMAND LED**
   When lit bright, indicates that the Thermostat is calling for heat.

4. **SET BUTTON**
   a. In “operating” mode - allows access to the programming mode.
   b. In “programming” mode - serves as an ACCEPT button.

5. **UP/LEFT BUTTON**
   Used for starting/stopping left timer.

6. **DOWN/RIGHT BUTTON**
   Used for starting/stopping right timer.

**** WARNING: DO NOT START THE FRYER UNLESS SHORTENING/OIL IS AT THE LEVEL INDICATED ON THE REAR WALL OF THE FRYER. STARTING THE FRYER WITHOUT SHORTENING/OIL COMPLETELY COVERING THE HEAT TUBES WILL CAUSE HEAT STRESS AND LEAD TO POTENTIAL OIL LEAKS. ****

OPERATION

LIGHTING/START:

1. Turn the POWER switch to ON.
2. Fryer will automatically come on in "Melt Mode", ON for 5 seconds and OFF for 30 secs periodically to gently heat oil/liquid shortening until melt release temperature point (120°F) has been reached.
3. When shortening reaches the set temperature, thoroughly stir the shortening. The Fryer is now ready to cook

** For complete **SHUT DOWN,** turn the Power Switch to "OFF". **

MOMENTARY PROGRAM DISPLAYS

DISPLAY READS	DISPLAY DESCRIPTIONS
"nELt"	Computer is in the MELT MODE stage. This feature can be bypassed by pressing and holding the **"SET"** button for 2 secs. Ensure there is liquid in the fryer when bypassing.
"HEAT"	Computer is in the heating stage (burners ON) to reach set point temperature.
"rdY"	Computer has reached set point temperature stage. The fryer is now ready to cook.
"ForC"	Computer is in the thermometric scale program mode. **"F"** for Fahrenheit or **"C"** for Celsius.
"dSPY"	Computer is in the temperature DISPLAY program mode. **"ACt"** for Actual temperature or **"SP"** for set point temperature.
"PrHt"	Computer is in the Melt temperature release setpoint program mode. 120°F is recommended.
"CYCL"	Computer is in the Melt cycle OFF time program mode. 30 secs is the least amount of time allowed
"FrSP"	Computer is in the COOK TEMPERATURE program mode. i.e. 350 for (350°F).
"HYS"	Computer is in the HYSTERESIS program mode. This program mode is intended for the Authorized, Qualified Service Agent. DO NOT change.
"OFS"	Computer is in the temperature OFFSET program mode. This program mode is intended for the Authorized, Qualified Service Agent. DO NOT change.

CONTROLLER PROGRAMMING

**** NOTE:** Thermostat controller programming mode can only be accessed while the controller is in the heating or ready stage.

**** NOTE:** Timer function can only be accessed when controller is in the ready stage.

FEATURE PROGRAMMING:

Feature programming allows the user to program:

a. Temperature Unit. (C or F). Default is F.
b. Temperature display, SP = Set Point or ACT = Actual Temperature. Default is ACT.
c. Melt temperature release set point. Default is 120°F.
d. Melt cycle OFF time. 30 to 50 secs. Default is 30 secs. On time is 5 seconds, fixed and not programmable.
e. Cook temperature. 200°F to 400°F. Default is 350°F.
f. Hysteresis (4°F).
f. Sensor Offset (Do not change).

**** NOTE:** A "programming timeout" will occur if no buttons are pressed for 10 seconds and the controller will return to normal operation.

HOW TO PROGRAM FEATURE:

1. Turn the POWER switch to ON.
2. Controller will come on automatically in MELT MODE stage. Display will read "nELt. Wait until controller goes into heating stage.
3. Once in heating stage, press and hold the **"SET"** button while entering the key sequence **DOWN, UP, UP**.
4. Controller will go into TEMPERATURE UNIT program; the display will read **"For C"** momentarily and then read **"F"**. Press SET to accept the default (Fahrenheit) or press the UP button to change temperature unit and then SET.
5. Controller is now in the DISPLAY program; the display will read **"dSPY"** momentarily and then read **"ACT"**. Press set to accept the default of Actual temperature being always displayed or press the UP button to change Set Point Temperature then press set.
6. Controller is now in the MELT TEMPERATURE RELEASE SETPOINT program; the display will read **"PrHt"** momentarily and then read **"120°F"**. This is the recommended setting. Press SET.
7. Controller is now in the MELT CYCLE OFF TIME program; the display will read **"CYCL"** momentarily and then read **"30"**. This is the recommended setting. Press SET.
8. Controller is now in the COOK TEMPERATURE program; the display will read **"FrSP"** momentarily and then read **"350°F**. Press the UP or DOWN buttons to the desired cook temperature and press SET.
9. Controller is now in the HYSTERESIS program; the display will read **"HYS"** momentarily then then read **"2°F".** This program mode is intended for the Authorized, Qualified Service Agent. DO NOT change. Press SET.
10. Controller is now in the OFFSET program; the display will read **"OFS"** momentarily and then read **"0"**. This program mode is intended for the Authorized, Qualified Service Agent. DO NOT change. Press SET and the controller will return to its normal operation. You Are Done

COOK TEMPERATURE PROGRAMMING:

Follow steps above until controller is in the COOK TEMPERATURE PROGRAM.

TIMER PROGRAMMING: Press and hold the desired LEFT or RIGHT timer button for 3 seconds until current programmed time is displayed. Use the UP/DOWN buttons to change the cook time. When the desired time is displayed, press the SET button to save the new programmed time.