

Instruction Manual

RDK-100 CONTROLLER FOR HOT RUNNER COIL HEATER INSTRUCTION MANUAL

Version 1.2

Caution

- The controller will start to heat the coil immediately after it is power up. Please make sure that the coil is placed in a secure place before power up. When controller is turned off, the coil will stay at a very high temperature for at least 15 min. Do not touch the coil until it is cooled down. The 700 °F coil is very dangerous and will cause severe burn if touched.
- This controller carries one year warranty. The warranty is for both controller and heater.

1. Specification

Controller

| | |
|-------------------------|---|
| Operating voltage: | 120V/240V AC. |
| Maximum current: | 5 Amp. |
| Input power connection: | IEC 320 C14. |
| Coil connection: | XLR 5 Pin. |
| Dimension: | 3.5 x 1.5 x 5.0 inch, (93 x 37 x 129 mm). |

Heater

| | |
|--------------------|--------------------------|
| Power rating: | 120V 250 Watt. |
| Coil size: | 15.8 mm ID, 14 mm width. |
| Cable length: | 30 inch |
| Temperature range: | 200 to 1000 °F. |

2. Front Panel and Operation

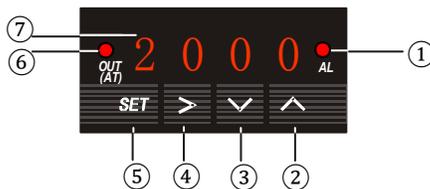


Figure 1. Front panel

- ① AL- Alarm indicator
- ② Temperature increment
- ③ Temperature decrement
- ④ Not used for normal operation
- ⑤ Not used for normal operation
- ⑥ OUT- Heater power is on indicator
- ⑦ During operation, it displays the temperature of the coil. When flashing (by press the Ⓜ or Ⓜ key once), it displays the target temperature

3. System setup

3.1 Coil Connection

To connect the coil, align the slot on the connector of the coil cable with tab on the socket at the front of the controller and push it in. To disconnect it, press the tab on the socket and pull the connector out.

3.2 Power on/off

The rocker type power switch is on the back of the controller. Press the side with "I" to turn it on. When it is on, the LED display at the front will lit and temperature is going to rise immediately. Press the "o" to turn it off.

3.3 Controller Setup

This controller has been programmed for 100 ~ 250 Watt hot runner coil. No parameter adjustment is needed if your coil is within this specification.

The temperature has been set at 700 °F. If you want to change it to a different value, please follow the steps below:
Press Up or Down arrow key once to switch the display from actual temperature to set temperature. The display will start to blink. Press Up or Down key again to increase or decrease the setting temperature. When finished, wait for 8 seconds and the setting will take effect automatically (the display will stop blinking). The recommended temperature is between 500 to 700 °F. Running above 900 °F will probably shorten the coil life and make its color turn to dark red.

If you ever want to change the other controller parameter such as the alarm temperature, temperature unit (Celsius or Fahrenheit), or P, I and D values for coil that is not in the wattage range specified, you can refer to the instruction manual of SYL-1512A from Auber Instrument. **Very Important:** before you change any of the parameter that is locked with pass code, please disconnected the coil first. Otherwise, the coil may be damaged instantly; because the controller will maintain a constant output when it is in parameter setting mode.

3.4 XLR Socket Pin Assignment

| | |
|---|---------|
| 1 | TC+ |
| 2 | TC- |
| 3 | GND |
| 4 | HOT |
| 5 | NEUTRAL |