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FEATURES

- Microcontroller Based Circuitry
- Ideal For a variety of fuel Burning Stoves, Fireplaces, Furnaces, Boilers & Barbeques
- Backlit Graphical LCD (Green std.- RGB optional)
- Up to nine Tactile Button inputs available
- Six Solid State Outputs (Two Phase Controlled for fans & blowers)
- Custom Programming Available For Specific Applications & Requirements

SPECIFICATIONS

1. Input Voltage:

- 1.1 Voltage: 120VAC ($\pm 20\%$)
- 1.2 Frequency: 60Hz

2. Inputs:

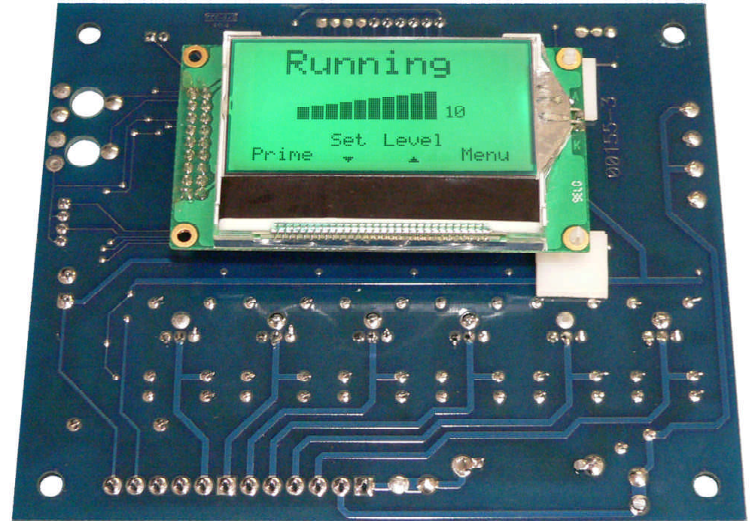
- 2.1 Tactile Button Inputs: (up to 9 available)
 - 2.1.1 SW1-SW8: Soft key inputs.
 - 2.1.2 SW9: Start/Stop
- 2.2 Temperature Probe/ Switches:
 - 2.2.1 (1) RTD or Snap Disk Input for temperature monitoring
 - 2.2.2 (1) Auxillary input for second RTD Input or Snap Disk Input
- 2.3 Vacuum Switch Input:
 - 2.3.1 Type: Dry Contact
 - 2.3.2 Form: SPDT N.C.
- 2.4 Fine Tune Adjustments:
 - 2.4.1 (1) Temperature Adjust moves relative window of regulation for all heat levels
 - 2.4.2 (1) Fan Adjust trims speed of Combustion Fan

3. Outputs:

- 3.1 Convection Fan:
 - 3.1.1 Type: Solid State Phase Controlled
 - 3.1.2 Min Current: 0.1 Arms
 - 3.1.3 Max Current: 2.0 Arms @ 50°C (Steady State)
- 3.2 Combustion Fan:
 - 3.2.1 Type: Solid State Phase Controlled
 - 3.2.2 Min Current: 0.1 Arms
 - 3.2.3 Max Current: 2.0 Arms @ 50°C (Steady State)
- 3.3 Igniter:
 - 3.3.1 Type: Solid State SPST
 - 3.3.2 Min Current: 0.1 Arms
 - 3.3.3 Max Current: 3.0 Arms @ 50°C (Steady State)
- 3.4 Auger
 - 3.4.1 Type: Solid State SPST
 - 3.4.2 Min Current: 0.1 Arms
 - 3.4.3 Max Current: 2.0 Arms @ 50°C (Steady State)
- 3.5 Grate/Agitator:
 - 3.5.1 Type: Solid State SPST
 - 3.5.2 Min Current: 0.1 Arms
 - 3.5.3 Max Current: 2.0 Arms @ 50°C (Steady State)

BURN-PRO

Temperature Regulated Heat Control System



GRAPHICAL DISPLAY EXAMPLES



3.6 Auxillary:

- 3.6.1 Type: Solid State SPST
- 3.6.2 Min Current: 0.1 Arms
- 3.6.3 Max Current: 2.0 Arms @ 50°C (Steady State)

4. LCD Graphical Display:

- 4.1 64 x 128 pixel graphics display
- 4.2 Green LED backlighting
- 4.3 The display will indicate the state of the control as well as showing current menu options.
- 4.4 Backlight Inactivity Delay: 60 Seconds

5. Time Delays (factory configurable):

- 5.1 Igniter Fault
- 5.2 Cool Down
- 5.3 Combustion
- 5.4 Convection
- 5.5 Learning Step
- 5.6 Combustion Re-Learn Cycle
- 5.7 Prime ON
- 5.8 Startup
- 5.9 High Limit Fault Delay

5. Time Delays (Continued)

5.10 Heat Level Setting Parameters:

5.10.1 Times configured based on customer requirements.

5.10.2 Tolerance: $\pm 5\%$

5.11 Vacuum Delays:

5.11.1 High Limit Snap/Vacuum Fault Delay:

5.11.1.1 Setting: 30 Seconds

5.11.1.2 Tolerance: $\pm 5\%$

5.11.2 Vacuum Sense Delay:

5.11.2.1 Setting: 100m Seconds Typical

5.11.3 Combustion Relearn Cycle Initiate Delay:

5.11.3.1 Setting: 10 Seconds

5.11.3.2 Tolerance: $\pm 5\%$

6. Protection:

6.1 Transient: Movistor protected to 10 joules

6.2 Dielectric breakdown: 1500 volts RMS min. from membrane switch overlay to AC HOT-NEUTRAL Input.

7. Environmental:

7.1 Operating Temperature Range: -20°C to 60°C

7.2 Storage Temperature Range: -40°C to 85°C

7.3 Maximum Humidity: 95% relative, non-condensing

8. Mechanical:

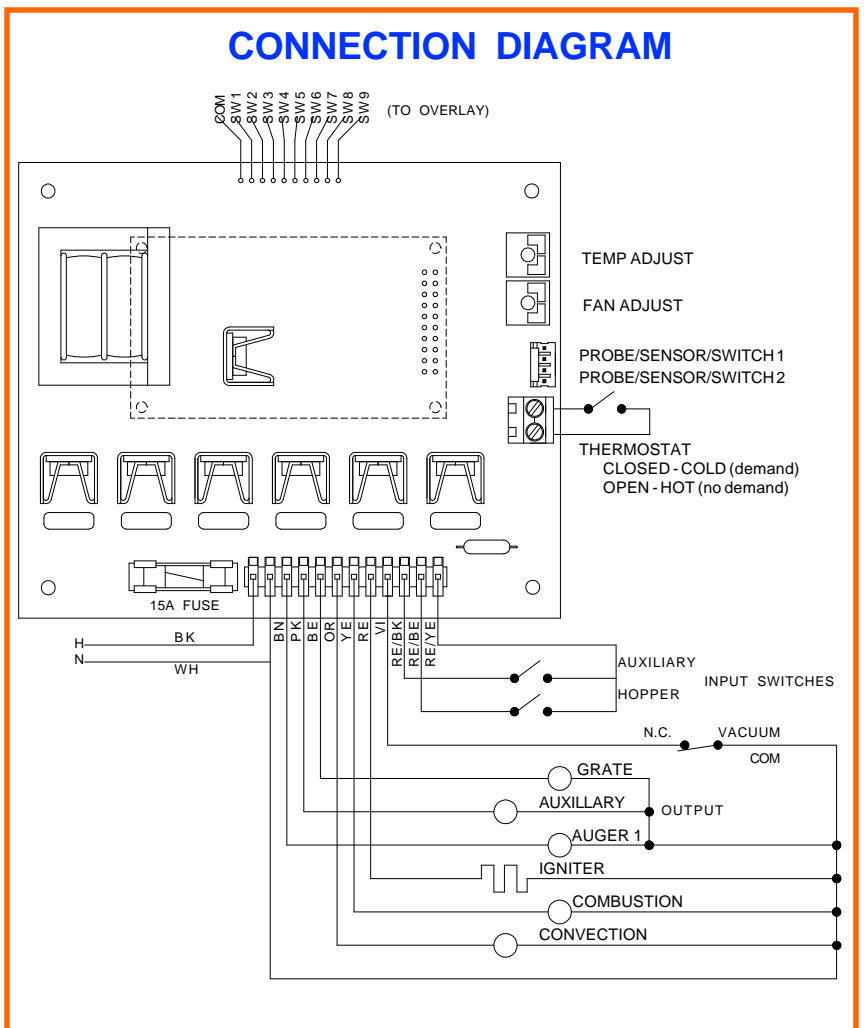
8.1 Mounting: (4) #4 machine screws

8.2 Package: Open board

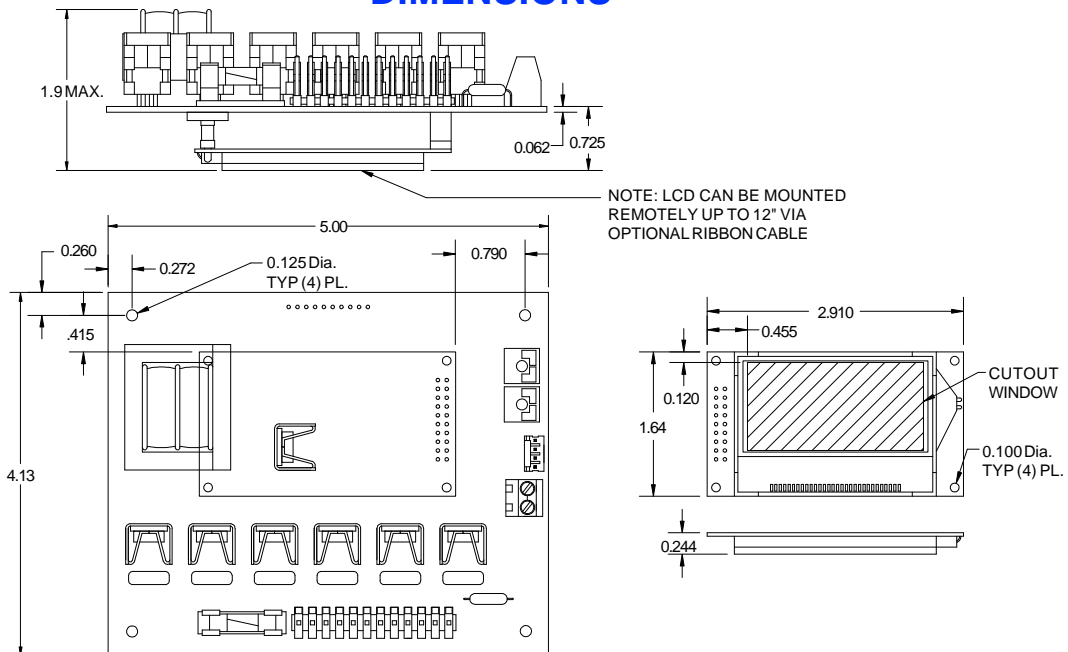
8.3 Termination: 12 circuit male Molex connector

MODE OF OPERATION:

Operating modes are custom programmed specifically for each customer's needs.



DIMENSIONS



ORDERING INFORMATION

BPR100 (RTD Probe)
BPS100 (Snap Disk)