Technical Bulletin

Control: SGL-0600
Application: Dual Fuel
Version: SGL-0600 1.02 ≥ and THM-0600 1.42 ≥

With the latest addition in firmware the SGL-0600 will be able to control Dual Fuel applications for Heat Pump primary with gas backup. This will be usable in both primary and secondary heating applications and will allow for certain the second stage to turn off the first stage once it comes on or have both heating stages operate together.

The following settings will be found under the Special Functions menu on the THM and will detail what each of these settings do in regard to the other outputs on the SGL-0600.

- **Stage 1 Fan:** When set to ON this will allow for the G terminal to activate when W1 or Y1 comes on. If the G terminal needs to rotate when both stage 1 (W1) and stage 2 (W2) is activated this should be enabled.
  Range: OFF, ON
- **Out Switch Temp:** when the outside temperature is at or colder than this setting it will allow the second stage (W2) to come on before the Stage Delay time has elapsed.
  Range: OFF, -39F – 120F
  - o This is only applicable in heating operation
    - ▪ The Outdoor temperature can be pulled from either the Internet once the SGL-0600 is on Wi-Fi and linked to the APP or by setting AUX Sensor to Outdoor and wiring a sensor to the THM-0600. (Refer to the wiring diagram).
- **Stage 1 OFF:** When set to ON this will turn off stage 1 (W1) when stage 2 (W2) comes on.
  - o This is only applicable in heating operation

Each of these settings will create different parameters that will allow for the second stage to come on with that in turn can be used for controlling the dual fuel application. The second stage should be wired to W2 with the first stage to W1.

Special Functions ATHM-0012	
Stat Type	Heat Only
THM Mode	Air
Aux Sensor	None
Room Offset	0°
Fancoil Setup	>
Room Name Setup	>
Default Setup	>

Fancoil Setup	
Stage 1 Fan	OFF
Fan ON Demand	ON
Stage Delay	1 mins
Out Switch Temp	-2°
Stage 1 Off	OFF
Fan Speed W	10%
Fan Speed W2	25%

Fancoil Setup	
Out Switch Temp	-2°
Stage 1 Off	OFF
Fan Speed W	10%
Fan Speed W2	25%
Fan Speed Y1	30%
Fan Speed Y2	15%
Fan Speed G	60%

Comfort
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Second Stage
(Dual Fuel)

HBX THM-0600 Thermostat

1 2 | 3 4 | 5 6
1 1 | 2 2 | 3 TH 3

Stage I Heat

Stage I Cool

THM Input

2 1 → TH
5 6

Zone Control

Outputs

2 1 W2 W1
4 3 D G
6 5 Y1 X
8 7 Y2 RC

1
2
3
4
5
6
7
8

Class 2 Circuits

Class 2 Circuits

SGL-0600

MOD Output 0-10Vdc

4 3 MOD − +

Demand Outputs 1A

6 5 DEM 1 1 2

8 7 DEM 2 3 4

Heat Enable

Cool Enable

Outdoor Sensor
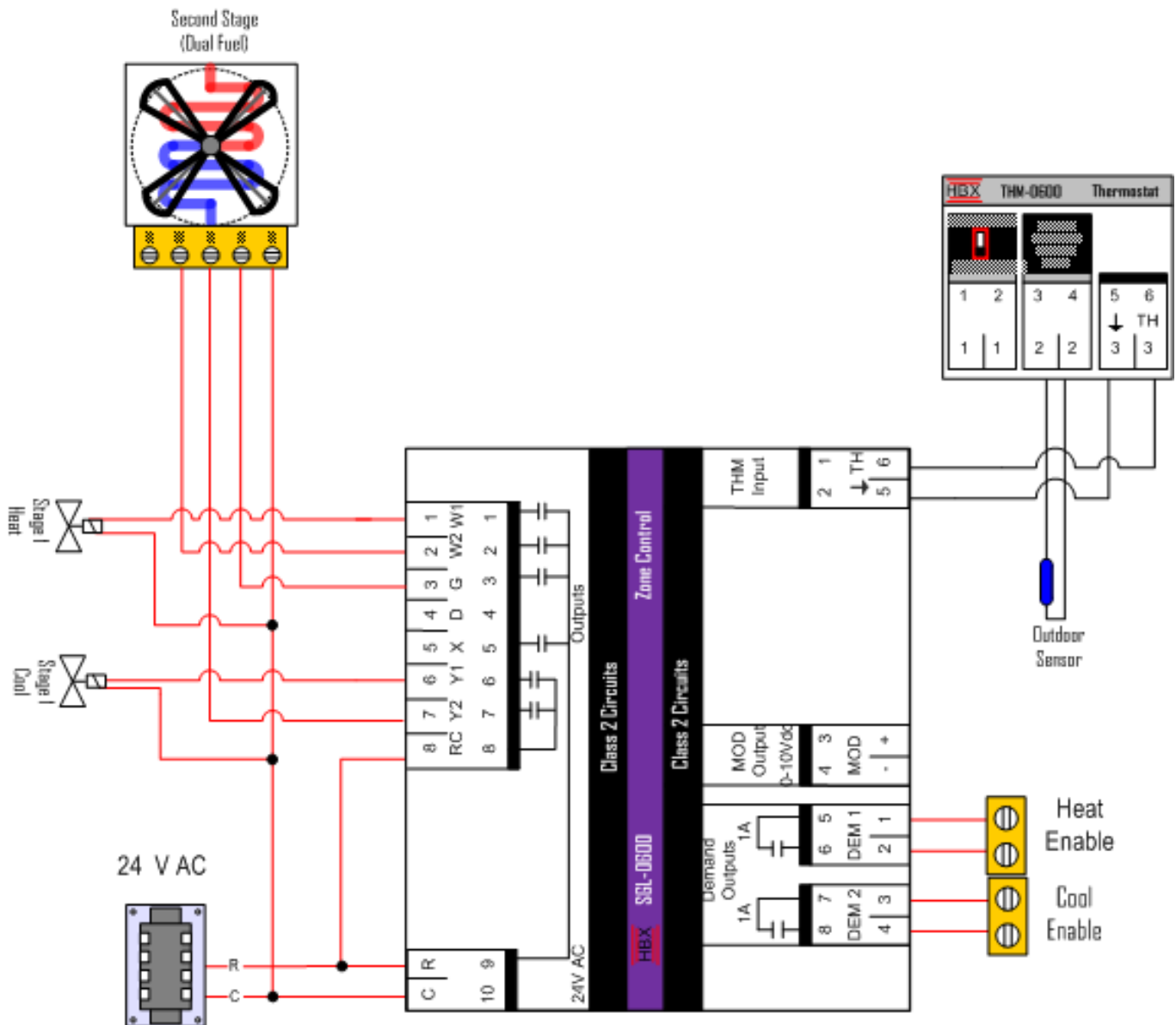
24 V AC

R
C

C R
10 9

24V AC

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