

Technical Bulletin

Control: ZON-0600

Application: WWSD/CWSD and Lockout Features

Version: 1.53 ≥

With the latest addition in firmware the ZON-0600 will have additional options in the settings for both Cold Weather Shutdown (CWSD) and Warm Weather Shutdown (WWSD) as well as lockouts. These new settings will allow for different zoning lockout parameters that are well suited for zoning with hot and cold tank systems. These features without the lockout used will run just like WWSD and CWSD, stopping the heat pumps from generating cooling or heating when not needed. When using the lockout it will use the outdoor sensor (as a lockout sensor) on the heat pump to lockout heating or cooling zones based on the temperature being generated in the heat pump. This works well in **Direct to Load systems**.

The following will highlight the different settings and how they affect the system. Each of these will be found under ShutDown Setup under the Setup Menu.

- **WWSD:** warm weather shutdown, this will lockout any heat calls from the THM-0600 based on the value set here. In normal operation any outdoor temperature at or warmer than this value will lock out heat calls.
- **CWSD:** cold weather shutdown, this will lockout any cool calls from the THM-0600 based on the value set here. In normal operation any outdoor temperature at or colder than this value will lockout cool calls.
- **Use Temp Lockout:** this will reverse the logic for both CWSD and WWSD. For WWSD any value at or colder than the set value will lockout heating. For CWSD any value at or warmer than the set value will lockout cooling. The outdoor sensor will be the Temp Lockout Sensor and should be placed somewhere close to the heat pumps for best results.
 - Use Temp Lock can only be enabled ON when both CWSD and WWSD have a value set. If either one is set to OFF when Temp Lock is enabled ON it will default to OFF once back to the Status Screen.
- **Demand Lockout:** this setting can only be selected when Use Temp Lock is set to ON. When Demand Lockout is set to ON when either CWSD or WWSD is enabled it will lockout the associated Demands. For example, in WWSD both HD and HD2 would be locked out. When Demand Lockout is set to OFF the demand outputs can still be engaged regardless of WWSD or CWSD.

To utilize these settings the outdoor temperature can be pulled from either the Internet once the ZON-0600 is on Wi-Fi and linked to the APP or by wiring in a sensor to the Auxiliary Thermistor input on the ZON-0600 (refer to wiring). When wiring in a sensor under the Setup Menu select Auxiliary Setup and set the Mode to Outdoor. For multiple ZON-0600s only the Primary ZON-0600 needs to have the sensor wired to it. To share the outdoor temperature from one controller to another go to the Auxiliary Setup on the Secondary ZON-0600 and set the Mode to Display. The Primary will still be set to Mode Outdoor so as to recognize the AUX sensor.

Shutdown Setup	
WWSD	75°
CWSD	54°
Use Temp Lockout	ON
Demand Lockout	ON

Auxiliary Setup	
Mode	Outdoor

Auxiliary Setup	
Mode	Display

Setup Menu	
Wi-Fi Setup	>
Time Setup	>
Auxiliary Setup	>
ShutDown Setup	>

Demand Setup	
Demand 1	AUX(Aux Setpoint)
Demand 2	APP(App Button)
Demand 3	CD2(Cool Stage 2)
Accept Secondary Demands	ON

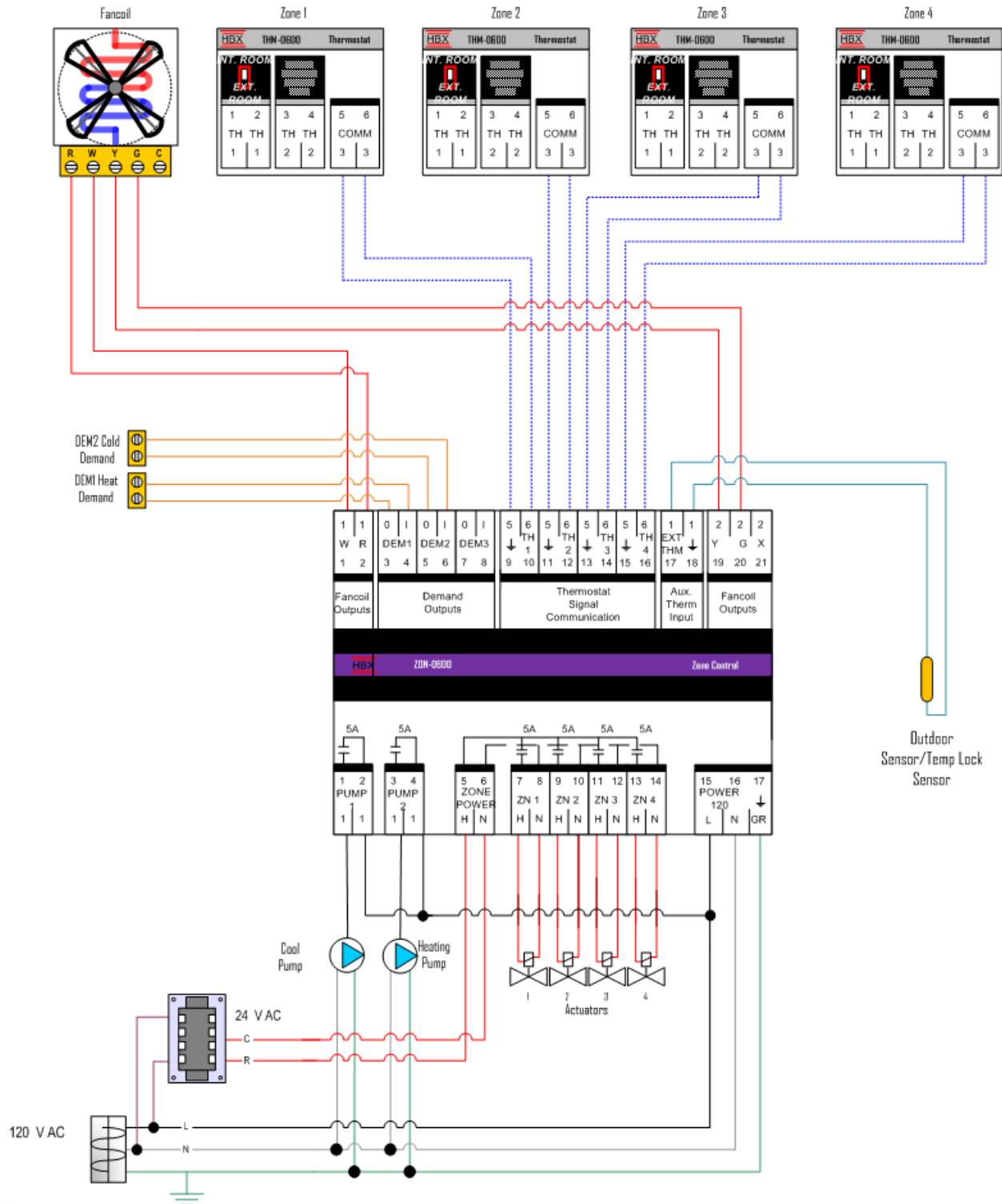
Contact Information

4516-112th Avenue SE
Calgary, Alberta T2C 2K2
CANADA

Phone: +1(403) 720 0029
Fax: +1 (403) 720 0054
Email: info@hbxcontrols.com



Control Systems Inc.



Contact Information

4516-112th Avenue SE
Calgary, Alberta T2C 2K2
CANADA

Phone: +1 (403) 720 0029
Fax: +1 (403) 720 0054
Email: info@hbxcontrols.com

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