

Technical Bulletin

Control: ZON-0600

Application: Tank Exercise

Version: 1.54 ≥

With the latest addition in firmware the ZON-0600 will now be able to exercise a tank through the use of the Auxiliary Sensor input. This function will ensure that the tank as it drops in temperature will be able to turn on AUX labeled terminals to raise the tank back up to target.

The following steps and notes will detail the setting to enable the Tank Exercise.

- Under the Setup menu scroll down and select Auxiliary Setup
- Set Mode under Auxiliary Setup to Setpoint. When in Setpoint Mode there will be options to set the target for the setpoint on the tank as well as the differential. This is what it will follow in normal operation.
- Under Setpoint Mode turn on Tank Exercise. This will enable the exercise function.

Once the Tank Exercise is enabled the operation will work as follows.

- When in Setpoint Mode the sensor will monitor the setpoint target chosen and keep it at the setpoint by turning on any Pump or Demand outputs labeled as AUX.
 - Under the Pump Setup either Pump 1 or 2 can be set as AUX which will only turn on based on the Auxiliary Sensor.
 - Under the Demand Setup either Demands 1,2 or 3 can be set as AUX which will only turn on based on the Auxiliary Sensor.
- When the tank doesn't need to be actively maintaining the tank at setpoint target change the Auxiliary Mode from Setpoint to Display. This can be done at the controller or via the Sensorlinx APP.
- With the Mode set to Display the sensor will still read the temperature on the tank but not follow the tank. As the tank reading drops once it gets to 80F this will enable any contact set as AUX to turn on and raise the temperature back up to the target that was set in the Setpoint Mode. The tank will repeat this until changed back to Setpoint Mode in which the tank will follow normal operation again.
 - When in Display Mode the temperature will rise back up to the target not the target plus the differential. The differential will only be used in Setpoint Mode.

With each of these settings and parameters met the Auxiliary Sensor will be able to move water in and out of the tank to exercise it even when not in an active state from the Setpoint Mode.

Auxiliary Setup	
Mode	Setpoint
Thermistor Target	130°
Differential	4°
Priority	3

Auxiliary Setup	
Thermistor Target	130°
Differential	4°
Priority	3
Tank Exercise	OFF

Auxiliary Setup	
Mode	Display

Pump Setup	
Pump 2	Cooling
Pump 2 Post Purge	30 sec
Pump 2 Start Delay	10 sec
Pump Exercise Time	24 hrs

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

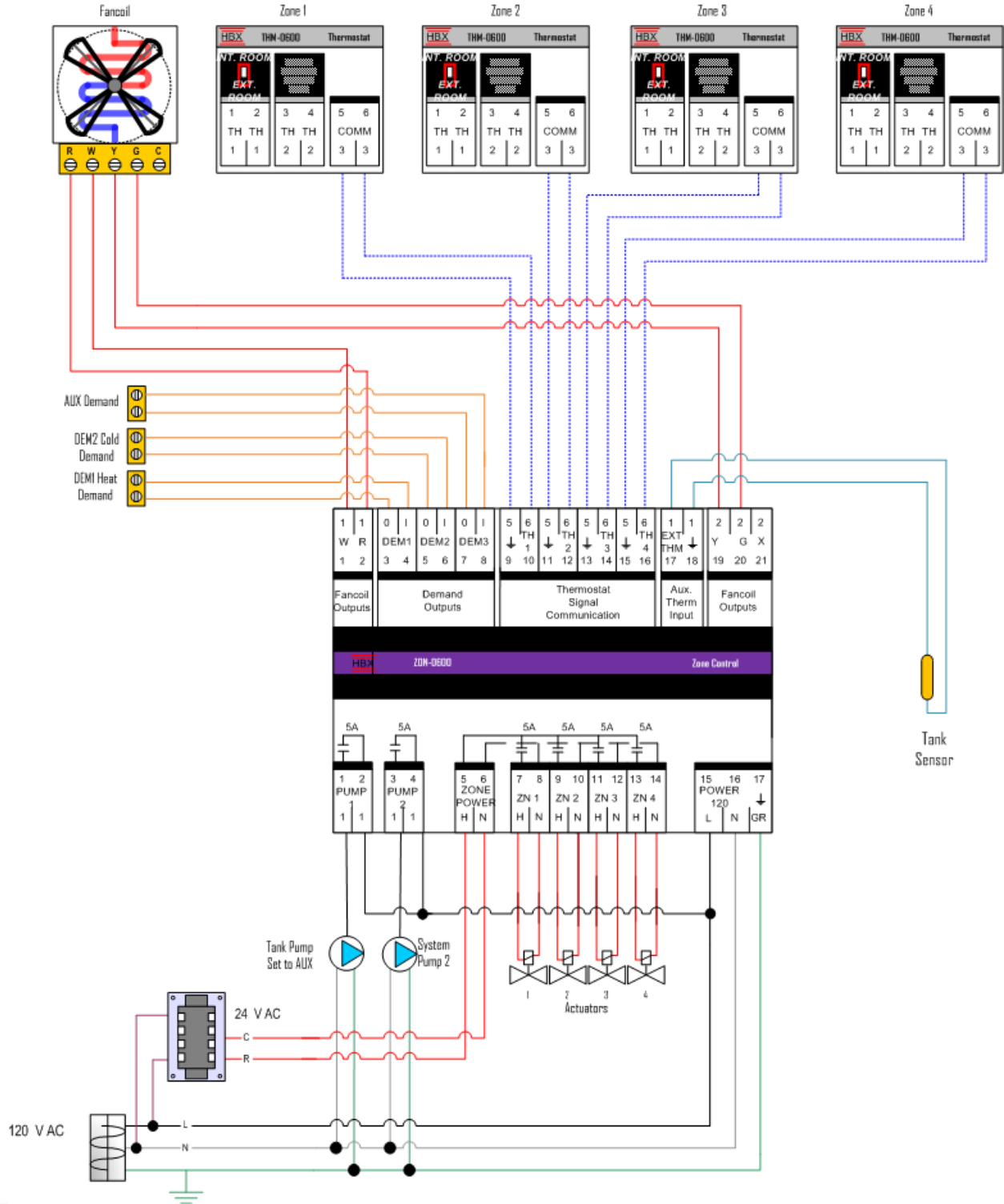
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