

Installation Manual
ZON-0600
Version 1.0.0



- Zone Control

ZON-0600

HBX Control Systems Inc.

TABLE OF CONTENTS

Introduction	1-3
Description	1
Safety Symbols & Warnings	2
Receipt & Inspection	2
Technical Data and Dimensions	3
Wiring & Installation	4-25
Wiring	4
Installation	5
Main Screen Navigation.....	6
System Settings.....	7-13
Application Drawing	15-21
Troubleshooting Guides	22
Warranty Information	23

Table of Contents

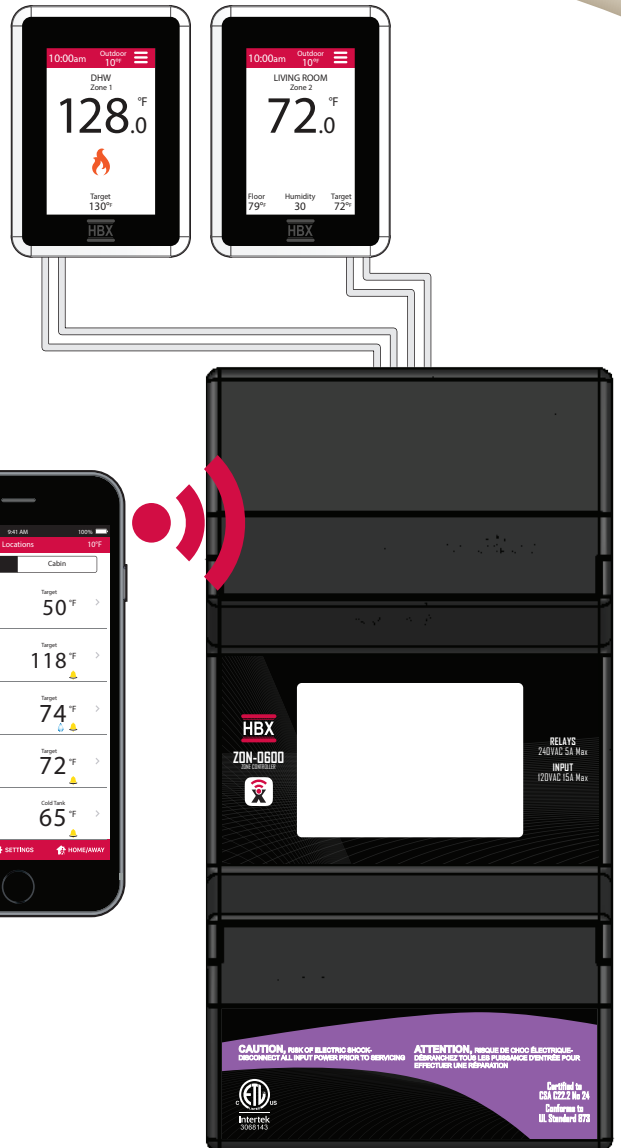
HBX ZON-0600 ZONE MODULE

HBX Control Systems launches the latest generation of the Wi-Fi Zoning System: the ZON-0600. This revolutionary control allows you to customize exactly your needs and wants for any application including radiant floor and forced air system control or a combination of both.

The **ZON-0600** can operate zone valves or zone pumps the choice is yours. Each module allows control up to 4 additional zones with the ability of wireless expansion between modules.

Each controller is now Wi-Fi enabled eliminating the need to use the an external Wi-Fi module for online connection. Each zone can be viewed or configured from your smartphone or tablet devices, allowing you to control your comfort anytime or anywhere.

There are so many features integrated into the **ZON-0600** which allows for customized options including selectable pump and demand outputs, pre and post purge run times with exercising options, and the ability to tie in an auxiliary thermistor to run a setpoint directly off the **ZON-0600**. Each ZON-0600 can run one (1) fan coil each with humidity.



This control can also function as a stand alone system without WiFi capabilities.

FEATURES

- App for Android or Apple Smartphone/tablet device for remote access with alarm email notification
- Control up to four (4) independent zones per control plus one Fancoil (W-Y-G) output
- Humidity Control (X Output)
- Wirelessly expandable to a maximum of twenty (20) zones within distance
- Provides pump, valve or damper control
- Three (3) demands outputs (TT1, TT2, TT3)
- 4 pipe geo systems

SAFETY SYMBOLS

**Extreme Hazard**

This action poses a serious threat that could result in personal injury or death, as well as permanent damage to the equipment. Proceed with caution.

**Point of Interest**

This point clarifies pertinent information, or brings your attention to an action that may have adverse effects on the installation process.

**Moderate Hazard**

This action may cause personal injury or have adverse effects on the installation process if handled incorrectly.

**Drawing Reference**

Refer to the specified electrical or mechanical drawing at the back of the manual.

**Disconnect Power Source**

The presence of low voltage (24VAC) or high voltage (120VAC) could result in personal injury or permanent damage to components or equipment.

SAFETY WARNINGS



WARNING: Non-serviceable product. Send to HBX Controls Inc. only for service.



WARNING: Only suitably qualified individuals with formal training in electrical and hydronic controls should attempt the installation of this equipment. Incorrect wiring and installation will affect the warranty provided with this unit. Wiring must be completed in accordance with the codes and practices applicable to the jurisdiction for the actual installation.



WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



EXTREME HAZARD: The **HBX ZON-0600** is a microprocessor based controller and as such is not to be regarded as a safety (limit) control. Please consult and install the heating or cooling appliance in accordance with the manufacturer's recommendations.



WARNING: Use only copper conductor supply wire suitable for at least 105 °C



WARNING: a) Use copper conductors only if the terminal is acceptable only for connections to copper wire; b) Use aluminum conductors only or use aluminum or copper-clad aluminum conductors only if the terminal is acceptable only for connection to aluminum wire; or c) use copper or aluminum conductors or use copper, copper-clad aluminum, or aluminum conductors if the terminal is acceptable for connection to either copper or aluminum wire.



WARNING: All circuits must have a common disconnect and be connected to the same pole of the disconnect.



WARNING: THM-0600 only for use with ZON-0600

RECEIPT & INSPECTION

After receiving, inspect the unit for any possible physical damage that may have occurred during transportation. After unpacking the unit make sure the box contains:

- 1 x Terminal Screwdriver (2.5 mm)
- 1 x Manual
- 1x HBX ZON-0600

TECHNICAL DATA AND DIMENSIONS

ZON-0600 TECHNICAL DATA



Specifications:

- 4 x THM-0600 Thermostat Communication inputs
- 3 x Fancoil outputs 24VAC 2A
- 1X Humidity output 24VAC 2A
- 3 x Demand output relays 24VAC 2A
- 4 x Zone Relay 120VAC 5A or 24VAC 5A
Input 120VAC 15A Max or 24VAC 5A
- 2 x Pump Relay 120VAC 5A
- 1x Auxiliary input 24VAC 2A Thermistor

Combined relay power should not exceed 15A

Weight:

0.75 kg

Dimensions:

131mm W x 246mm H x 66.71 D
5.16in W x 9.83in H x 2.64 D

ETL Listings:

- Meets CSA C22.2 No. 24
- Meets UL Standard 873
- ETL Control No. 3068143

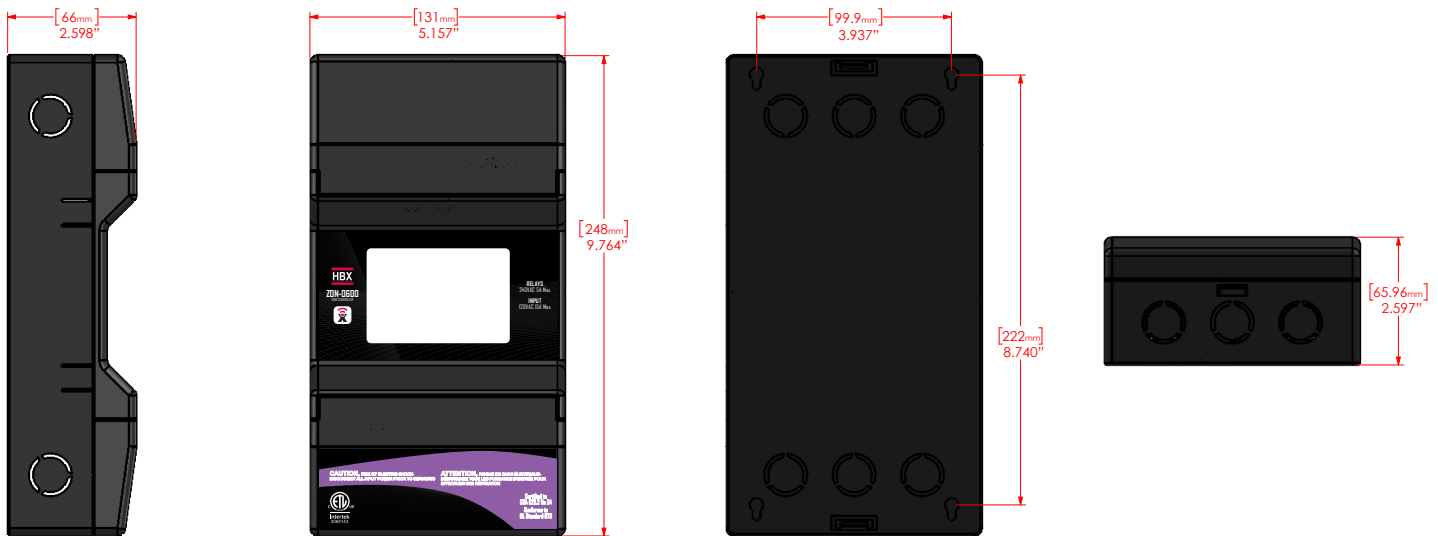
Storage:

50°F to 104°F (10°C to 40°C)

ZON-0600 RF Info:

- Contains FFC ID: 2AHMRESP12S
- Frequency: 2.4GHz

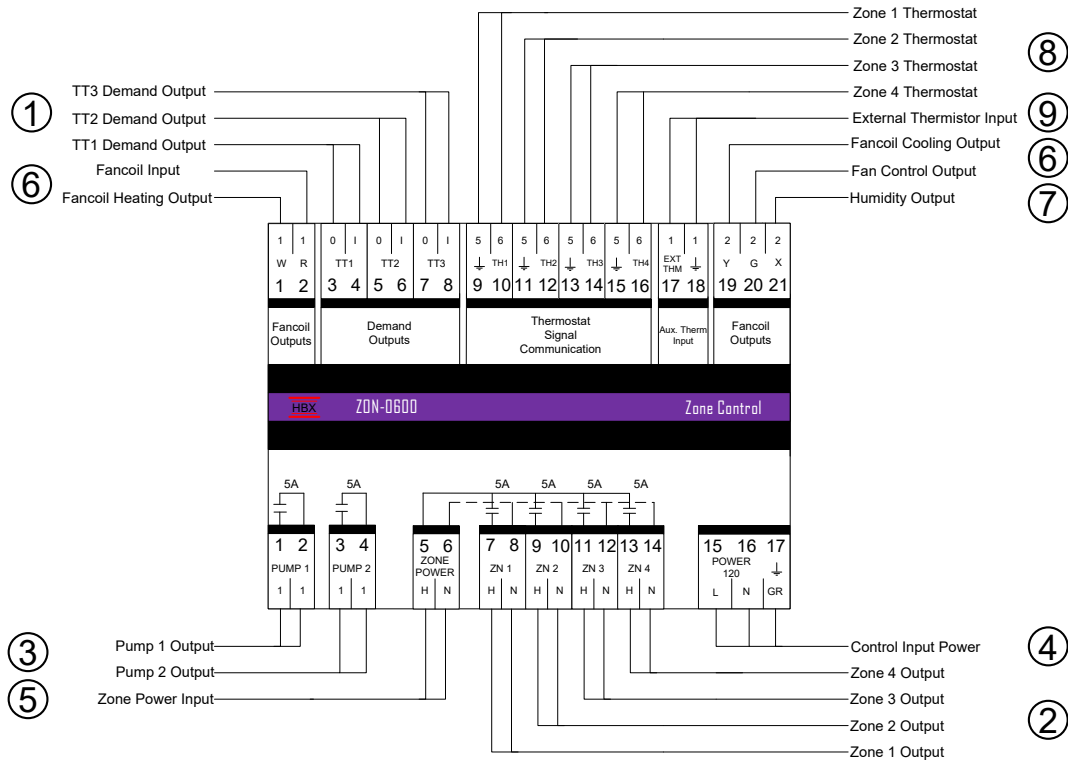
DIMENSIONS



WIRING AND INSTALLATION

WIRING

We recommend all signal wiring to be a minimum of 18AWG shielded wire at a maximum of 500ft.



1. DEMAND OUTPUTS

These are the outputs for the demands. These can be a Heating, Cooling, Auxiliary, and App demand, 24VAC contact, dry contact TT/Low Temperature demand for a boiler, or DHW/High Temperature demand.

2. ZONE 1 - 4 OUTPUT

These are the outputs for the zone device. This can be a pump or a valve depending on what power is supplied to terminals 5-6. These outputs can also be used for Damper Zones (terminals 1 & 3) or a 4 pipe system.

3. PUMP OUTPUTS

These are dry contact outputs that can be used to control a pump for the following: System pump, Heating pump, Cooling pump, Auxiliary pump (DHW), App demand pump, Fancoil Heat/Cool pump, Fancoil heat, Fancoil cool

4. INPUT POWER

This input is to power the ZON-0600. 0.5 Amps at 120 VAC is required to power this device.

5. ZONE POWER

This input is used to power the zone outputs and is rated for 240VAC, 120VAC or 24VAC.

6. FANCOIL OUTPUT

These are the outputs for the Fancoil demands. These can be a Fan Demand or an HRV Demand.

7. HUMIDITY OUTPUT

This output is used for a humidity demand. This can be used to humidify or dehumidify.

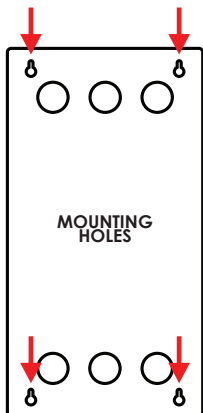
8. THERMOSTAT INPUT 1 - 4

These terminals are used for power and communication for thermostat inputs. Only THM-0600 thermostats are compatible with this control.

9. AUXILIARY INPUT

This terminal is an input for an external thermistor to monitor any temperature or read outdoor temperature, or run a heating setpoint.

INSTALLATION



ZON-0600 Installation

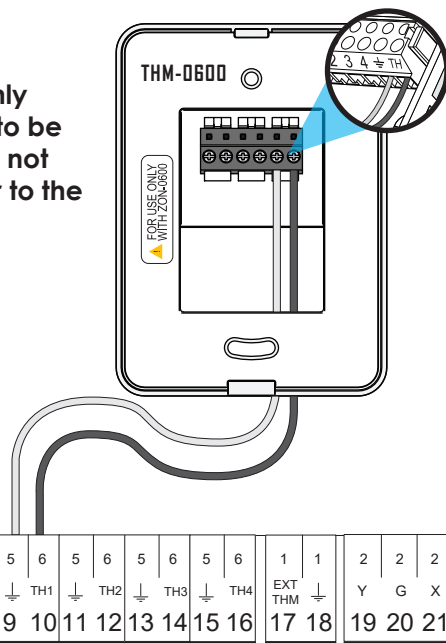
The ZON-0600 is designed to be wall mounted or installed in a separate electrical enclosure. The unit should be installed indoors and protected from falling water and high humidity conditions. With all the covers in place, it is designed to protect any individual from accidental electrical shock. It is not suitable for installation in hazardous locations and should not be close to any electromagnetic fields.

- Identify the four mounting holes on the ZON-0600, mark on the wall the desired location of mounting
- Pre-drill, anchor and fasten the two bottom screws for mounting
- Hang ZON-0600 and fasten the top two screws then tighten the bottom screws
- Complete wiring connections in accordance with local area electrical codes

STAND ALONE SYSTEM SETUP



The THM-0600 is the only approved thermostat to be with the ZON-0600. Do not supply external power to the thermostat.



Wiring polarity is important. Match the ground and TH on the THM-0600 to the ZON-0600 control.

Installation

Connect the THM-0600 thermostat to the control. If you are using a single thermostat, ensure it is connected to TH1 on the control. It is normal for the thermostat to take up to two (2) minutes to startup. The THM-0600 should not be installed in a high humidity location or where falling water is located.

Thermostat field signal wiring installation

The signal wiring that connects the ZON-0600 to each thermostat should not run parallel for any lengths with any other wires. If this is a retrofit installation and the thermostat signal wiring installation can not be verified it is recommended that the thermostats to be installed in the mechanical room with remote room (029-0022, not provided) and/or floor sensors (029-0045).

ZON-0600 MAIN SCREEN

The ZON-0600 features a full LCD screen that will display each zone and what their current states are.

1 Each THM-0600 will be displayed with their respective zone number, their name, current temp and if they have a demand for heating, cooling, fan or humidity. If the zone output is activated that zone will be bordered with a green box, and the associate zone output in the lower wiring chamber will be closed.

2 **Fancoil** - here you will see if the fancoil has any calls and which ones they are. The wiring contacts associated with this are in the upper wiring chamber. If there is a flame signal then contacts R-W will be closed, a snowflake then R-Y will be closed, a fan then R-G will be closed, and finally a water drop humidity then contacts R-X will be closed.

3 **Auxiliary Thermistor** - here you will see either the Auxiliary setpoint, or Outdoor Temp or Aux temperature for a displayed only temp. When the setpoint is being used the actual temp will be displayed in blue on the left, and the target will be on the right. When the Auxiliary setpoint is calling it will be bordered with a green box.

4 **Pumps** - when a pump is activated by a call you will see the first pump (P1) and or the second pump (P2) light up in respect to their classification, their associated contacts PUMP 1 or PUMP2 that can be found in the lower wiring chamber will be closed.

5 **Demands** - when one of the demands that a user has chosen activates it will be highlighted in this location

ZONE 1 - 4	
ZONE 1 Bedroom 76°	AUXILIARY SETPOINT OFF
ZONE 2 Garage 78°	FANCOIL
ZONE 3 Basement 82°	PUMPS
ZONE 4 Upstairs 90°	DEMANDS CD HD HD2

ZONE 1 - 4	
ZONE 1 Bedroom 76°	AUXILIARY SETPOINT 130° 122°
ZONE 1 Damper (N/C)	FANCOIL
ZONE 3 WWSO Basement 82°	PUMPS
ZONE 3 Cooling	DEMANDS CD CD2 AUX

2nd Stage Damper

4-pipe configuration



THM 4/Zone 4 can not do this function as there is no sequential zone on the same zone controller.

Please note that if a THM-0600 has been setup to have a 2nd stage damper or if the 4 pipe geo ability has been selected that zone will now utilize the next sequential zone output on the same ZON-0600. The ZON-0600 will note this on the screen and it will turn off the power output to that thermostat associated with the extra zone that was now utilized.

CONTROL STATUS



Sync Code	AZON-0010
Wi-Fi Network	WIFI1
Wi-Fi Password	8P6CTE
Wi-Fi Strength	93%
On-Board Zone	ATHM-0100
Secondary Zone	AZON-0020
Secondary Stats	ATHM-0200

CONTROL STATUS

Sync Code - Sync Code of the ZON-0600

Wi-Fi Network – displays current SSID network connected to

Wi-Fi Password – displays password of current network connected to

Wi-Fi Strength – displays Signal strength of the network connected to

On-board Zone 1-4 (5-20) – Sync code of the connected thermostat to the associated zone. If no thermostat is connected to a zone, that zone will not be displayed.

Secondary Zone – Sync code of any LINKED ZON-0600's to this primary ZON-0600. This will only show up if this is the primary ZON-0600 and other ZON-0600's have been LINKED.

Secondary Stats – Sync code of any thermostats from LINKED ZON-0600's. This will only show up if this is the primary ZON-0600 and other ZON-0600's have been LINKED.

DEMAND SETUP



Demand 1	AUX (App Button)
Demand 2	HD (Low Temp)
Demand 3	HD2 (High Temp)

DEMAND SETUP

Demand 1 – This chosen demand will close the contact tt1 in the upper wiring chamber

Demand 2 – This chosen demand will close the contact tt2 in the upper wiring chamber

Demand 3 – This chosen demand will close the contact tt3 in the upper wiring chamber

These demand ports are dry contacts which are rated for 24VAC and will close when there is a respective call

DEMAND SELECTIONS

HD (Low Temp) – Heat demand low temperature such as radiant in-floor

HD2 (High Temp) – Heat demand high temperature such as a fancoil or baseboard heaters (2nd stage fan coil)

AUX (Aux. Setpoint) – Demand from the auxiliary setpoint thermistor, which will close when there is a call from this thermistor

APP (App Button) – Demand from a virtual switch in the ThermoLinX app, this is a dry switch that can be used to run anything, such as a 24volt/dry switch for a fireplace, or a zone valve to shut off your water supply

CD (Cool) – Cool demand first stage

CD2 (Cool Stage 2) – Cool demand second stage, or fancoil

PUMP SETUP



Pump 1	System
Pump 1 Post Purge	60 sec
Pump 1 Start Delay	0 sec
Pump 2	Cooling
Pump 2 Post Purge	60 sec
Pump 2 Start Delay	0 sec
Pump Exercise Time	24 hrs

PUMP SETUP

Pump 1 - The chosen pump type will close the lower contact at 1-2 (PUMP1) Pump choice options explained below

Pump 1 Post Purge – (0 -240 seconds) the amount of time if necessary for Pump 1 to run after the call associated with it has been removed

Pump 1 Start Delay – (0 -240 seconds) the amount of time if necessary for Pump 1 be delayed to run after the call associated with it has been activated

Pump 2 - The chosen pump type will close the lower contact at 1-2 (PUMP2) Pump choice options explained below

Pump 2 Post Purge – (0 -240 seconds) the amount of time if necessary for Pump 2 to run after the call associated with it has been removed

Pump 2 Start Delay – (0 -240 seconds) the amount of time if necessary for Pump 2 be delayed to run after the call associated with it has been activated

Pump Exercise Time – (0 -240 hours) the amount of time that need to pass before the pumps will exercise the system pumps. (0 = no exercising)

PUMP OPTIONS

Heating – If there are any heating calls other than a fancoil heating call the pump contact will close

Cooling – If there are any cooling calls the pump contact will close

AUX – If the Auxiliary thermistor calls this pump contact will close

APP – If the virtual app switch is activated this pump contact will close

Fancoil Heat/Cool – If there are any heating or cooling calls from the fancoil the pump contact will close

Fancoil Heat – If there is a heating call from the fancoil the pump contact will close

Fancoil Cool – If there is a cooling call from the fancoil the pump contact will close

System – If there are any heating or cooling calls the pump contact will close

SETUP MENU	
Pump Setup	>
Zone Sequence	Primary
Zone Control ID	40
Wi-Fi Settings	>

ZONE SEQUENCE SETUP

When using more than one ZON-0600 and you would like them to communicate wirelessly between each other, specifically in relation to dampers, demands and priorities, then they will need to follow a sequential order. Each sequence represents 4 possible thermostats (THM-0600) per zone controller with a maximum of 5 ZON-0600's in total. The first sequence will always be labelled Primary and represent sequence 1-4.

- Primary (1-4)
- 5-8
- 9-12
- 13-16
- 17-20

ZONE CONTROL ID/PRIMARY ZONE ID (1-255)

If the Zone Sequence was set to the Primary then this number will represent this ZON-0600's ID. If the Zone Sequence was set to any of the other sequences you can then set this value to represent the Primary Zone Control ID and they will LINK automatically.

WI-FI SETTINGS	
Wi-Fi Password	>
Wi-Fi SSID Manual Entry	>
Wi-Fi SSID Scan	>
Connect Now	Ready

WI-FI SETTINGS

Wi-Fi Password - Input the password for the 2.4 GHz SSID network that you are connecting to. (capital letters, special characters, numbers and lower case characters all available).

Wi-Fi SSID Manual Entry – This is where you can manually input the 2.4GHz SSID network that you want to connect to, use this method if the network does not auto populate when you perform the Wi-Fi SSID Scan. Ensure that you input this network exactly how it would appear, including spaces, numbers, capital or lowercase letters and or special characters.

Wi-Fi SSID Scan – Pressing this will allow the ZON-0600 to actively scan for all available networks that you can choose from, and then you may select the 2.4 GHz network that you wish to connect to.

Connect Now - Once you have selected the appropriate network and you have entered the correct password for that 2.4GHz network, pressing Connect Now will establish a connection to the Wi-Fi network.



If the connection is successful the option will display "Server". If the connection is not successful the option will display ready. If it displays "Wi-Fi" you may need to open port 1314 on your network router.

TIME SETTINGS



Auto Time	ON
Time	10:06am
Day of Week	Mon
Timezone	GMT +6:00

TIME SETTINGS

Auto Time - When connected to a 2.4 GHz Network the time displayed on the THM-0600's will be associated with the time zone you have chosen.

Time – Manual time input (24 hour clock)

Day of the Week – Manual day input (Mon, Tue, Wed, Thur, Fri, Sat, Sun).

Time Zone - Select the time zone for your area.

STANDARD TIMEZONES

Atlantic Standard Time	AST	GMT-4
Eastern Standard Time	EST	GMT-5
Central Standard Time	CST	GMT-6
Mountain Standard Time	MST	GMT-7
Pacific Standard Time	PST	GMT-8
Alaskan Standard Time	AST	GMT-9
Hawaiian Standard Time	HST	GMT-10

DAYLIGHT SAVINGS

Atlantic Daylight Time	ADT	GMT-3
Eastern Daylight Time	EDT	GMT-4
Central Daylight Time	CDT	GMT-5
Mountain Daylight Time	MDT	GMT-6
Pacific Daylight Time	PDT	GMT-7

AUXILIARY SETUP	
Mode	Setpoint
Thermistor Target	70°
Differential	8°
Priority	1

AUXILIARY SETUP

Mode - Function of the auxiliary thermistor port at originate from the upper contacts EXT. THM. You can choose from 3 options: Setpoint, Outdoor , Display.

If you choose Setpoint, the ZON-0600 will display the following:

- **Thermistor Target** (Off, 35-200°F) this will be a heating only target for the Auxiliary thermistor input
- **Differential** (2-100) the differential selected will be split above and below the target. For example a differential set for 8 and a target set for 120 would mean that AUX Setpoint will call for heat at 116 and then shut off at 124.

- **Priority** (Shield, None, 1-7) Priority for this Auxiliary Thermistor

Shield: not affected by another zones priority

None: No priority for this zone, any other zone with priority will pause this call

1: 60 min priority over zones set to (none, 2-7)

2-7: Priority over zones that are next in line, for example 2 has a greater priority than 3, 4, 5, 6, 7 and None

Any zone that is being affected by a priority will have it's current call greyed out.

If you choose Outdoor, this will be for an actual outdoor sensor (OUT-0100) connected to the ZON-0600 for exact location temperature and used for WWSD

If you choose Display Only, this will be an external thermistor to only monitor a temperature of the users choosing (ie: chiller, cold room, humidor, pool, etc)

SETUP MENU	
Pump Setup	>
WWSD	OFF
Zone Post Purge	60 sec
Damper Communication	OFF
Backlight	OFF
Degrees	°F

WWSD

When the ZON-0600 is hooked up to the local Wi-Fi network, the control will use the local weather station associated with the area to shutdown any heating zones when the WWSD temp is reached or exceeded. (Off, 35-150)

ZONE POST PURGE

(0 -240 seconds) the amount of time if necessary for the zone outputs to run after the call associated with it has been removed.

DAMPER COMMUNICATION

(On, Off) Communication between ZON-0600's in respect to dampers associated with one fancoil. For example if you have one fan coil but multiple other damper zones they will now communicate the damper logic between the 2 -5 other ZON-0600's in respect to the heating or cooling calls.

BACKLIGHT

(On, Off) If you want the back light on permanently or only when the control is being accessed.

DAMPER SEQUENCES

Damper Zone (Zone Setup) dampers can not be used in conjunction with 4-pipe mode. Damper theory can be shared between linked **ZON-0600** devices.

Single normally open (N/O) damper operation

In a no heat or no cool situation there is no power to any of the dampers so they all remain in an open state. A call for heat or cool from a thermostat the corresponding zone output will not power as the damper is already open, any other N/O dampers on this zone controller will power to close them if they are not calling. If another zone damper calls as well the power to the corresponding zone output will be shut off, causing the damper to open. Once the heat or cool demand is gone power is dropped to all dampers so that they will all open. If there is a just a fan call or humidity all dampers remain open to allow ventilation/circulation.

Single normally closed (N/C) damper operation

In a no heat or no cool situation all of the dampers are powered so they all remain in an open state. A call for heat or cool from a thermostat the corresponding zone output will remain powered and any other dampers on the zone controller will power down thus closing them. If another zone damper calls as well the corresponding zone output will be powered causing the damper to open. Once the heat or cool demand is gone all dampers are powered so that they will all open. If there is a just a fan call or humidity all dampers remain open to allow ventilation/circulation.

2 stage normally open (N/O) damper operation

Please note that whichever thermostat is set to 2 stage N/O they take over the next zone output, for example the THM-1 is set to 2 stage N/O then the damper operates on the zone 2 output, also the THM-2 thermostat output will switch off and if a thermostat is connected to this location it will power down.

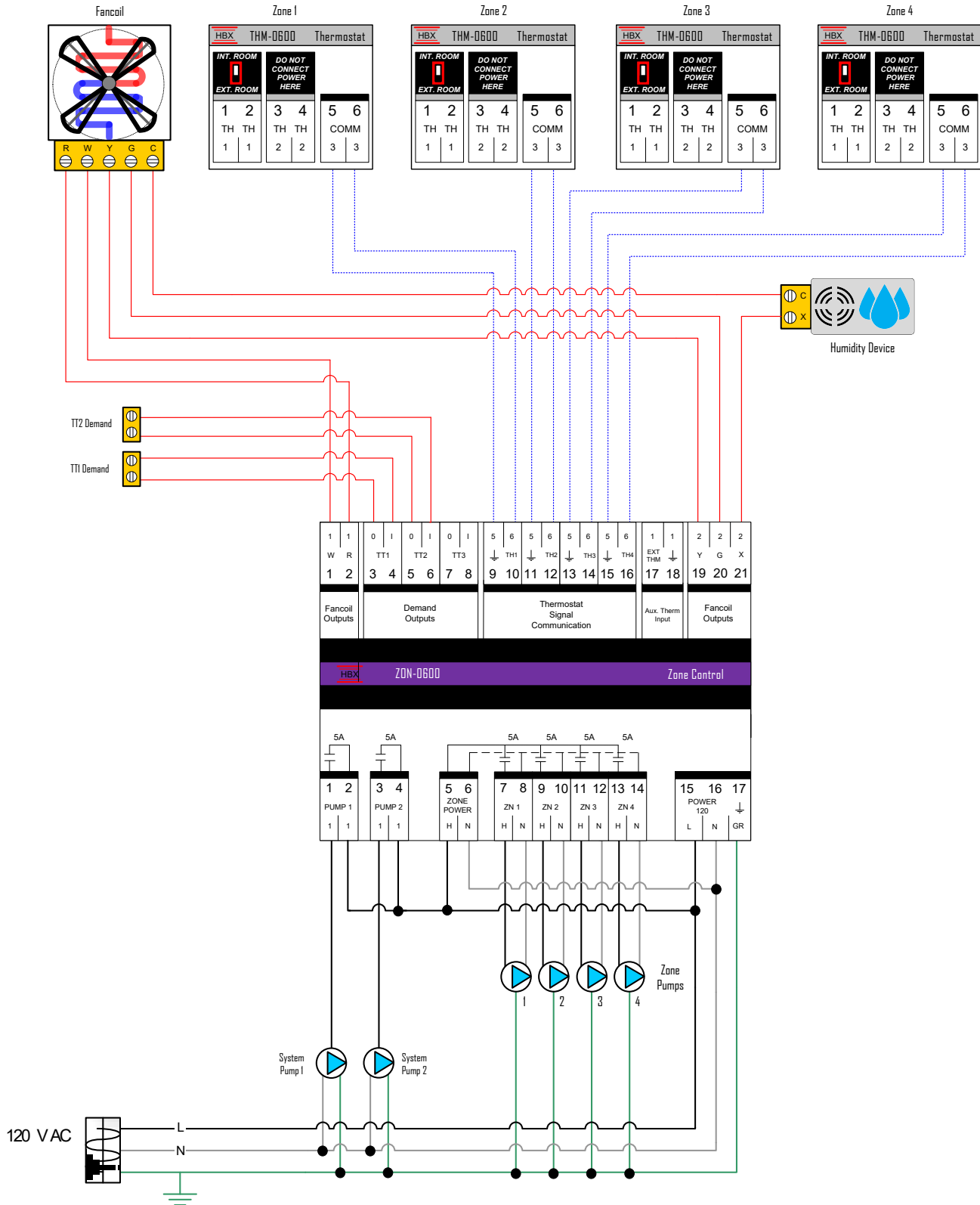
In a no heat or no cool situation there is no power to any of the dampers so they all remain in an open state. A call for heat or cool from a thermostat the corresponding zone output will not power as the damper is already open, any other N/O dampers on this zone controller will power to close them if they are not calling. If another zone damper calls as well the power to the corresponding zone output will be shut off, causing the damper to open. Once the heat or cool demand is gone power is dropped to all dampers so that they will all open. If there is a just a fan call or humidity all dampers remain open to allow ventilation/circulation.

2 stage normally open (N/C) damper operation

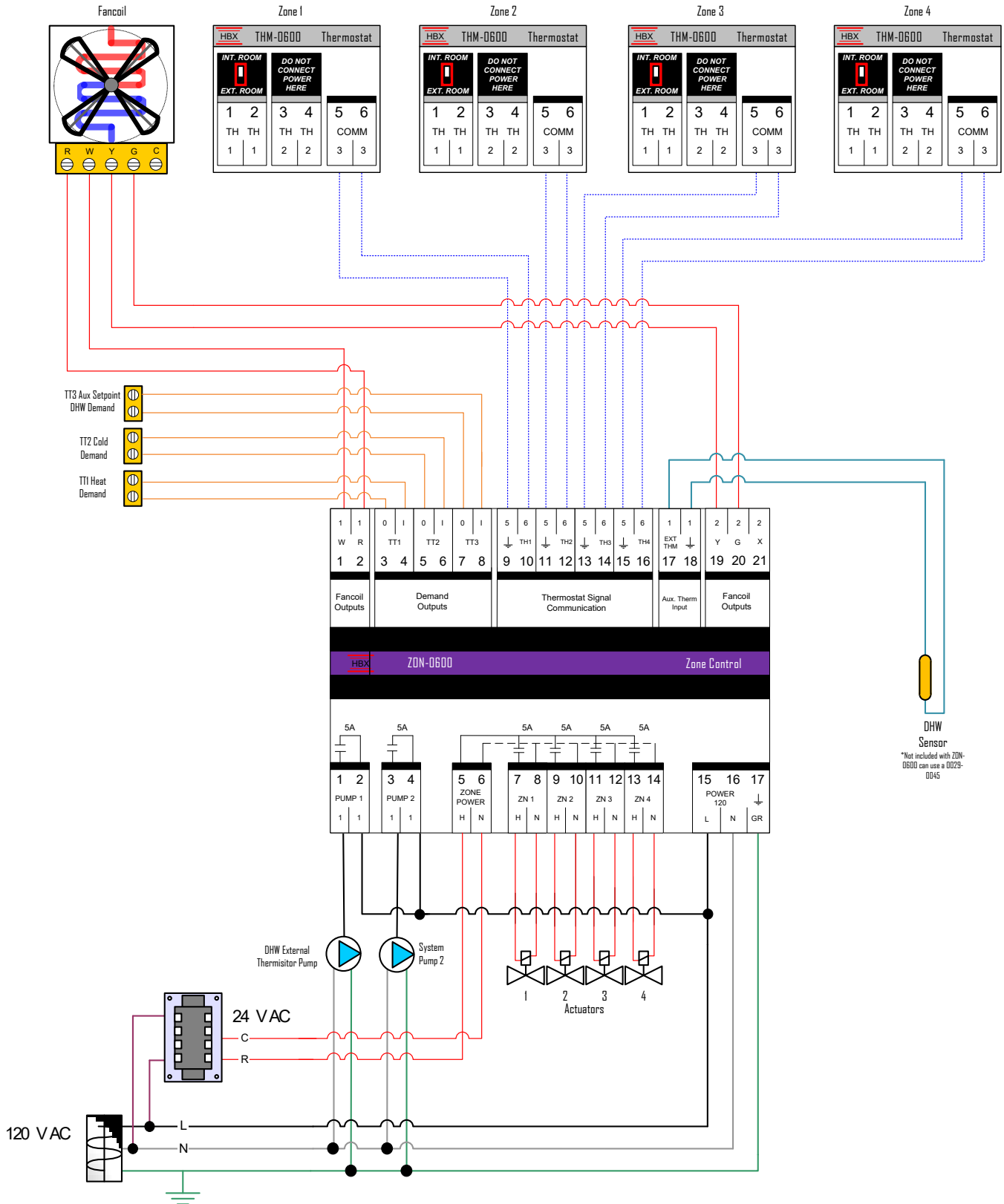
Please note that whichever thermostat is set to 2 stage N/O they take over the next zone output, for example the THM-1 is set to 2 stage N/C then the damper operates on the zone 2 output, also the THM-2 thermostat output will switch off and if a thermostat is connected to this location it will power down.

In a no heat or no cool situation all of the dampers are powered so they all remain in an open state. A call for heat or cool from a thermostat the corresponding zone output will remain powered and any other dampers on the zone controller will power down thus closing them. If another zone damper calls as well the corresponding zone output will be powered causing the damper to open. Once the heat or cool demand is gone all dampers are powered so that they will all open. If there is a just a fan call or humidity all dampers remain open to allow ventilation/circulation.

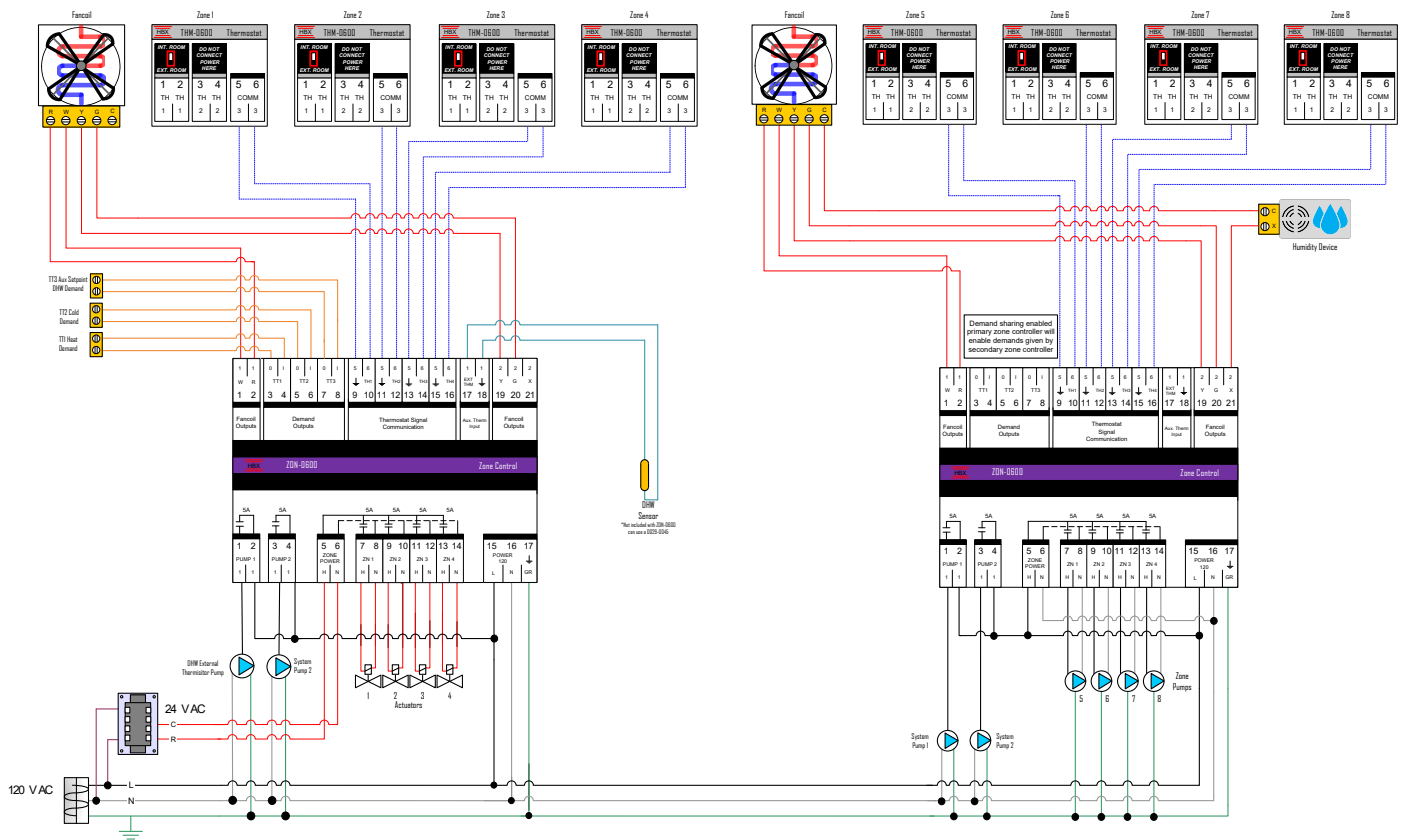
1) Standalone with THM-0600 and Zone Pumps



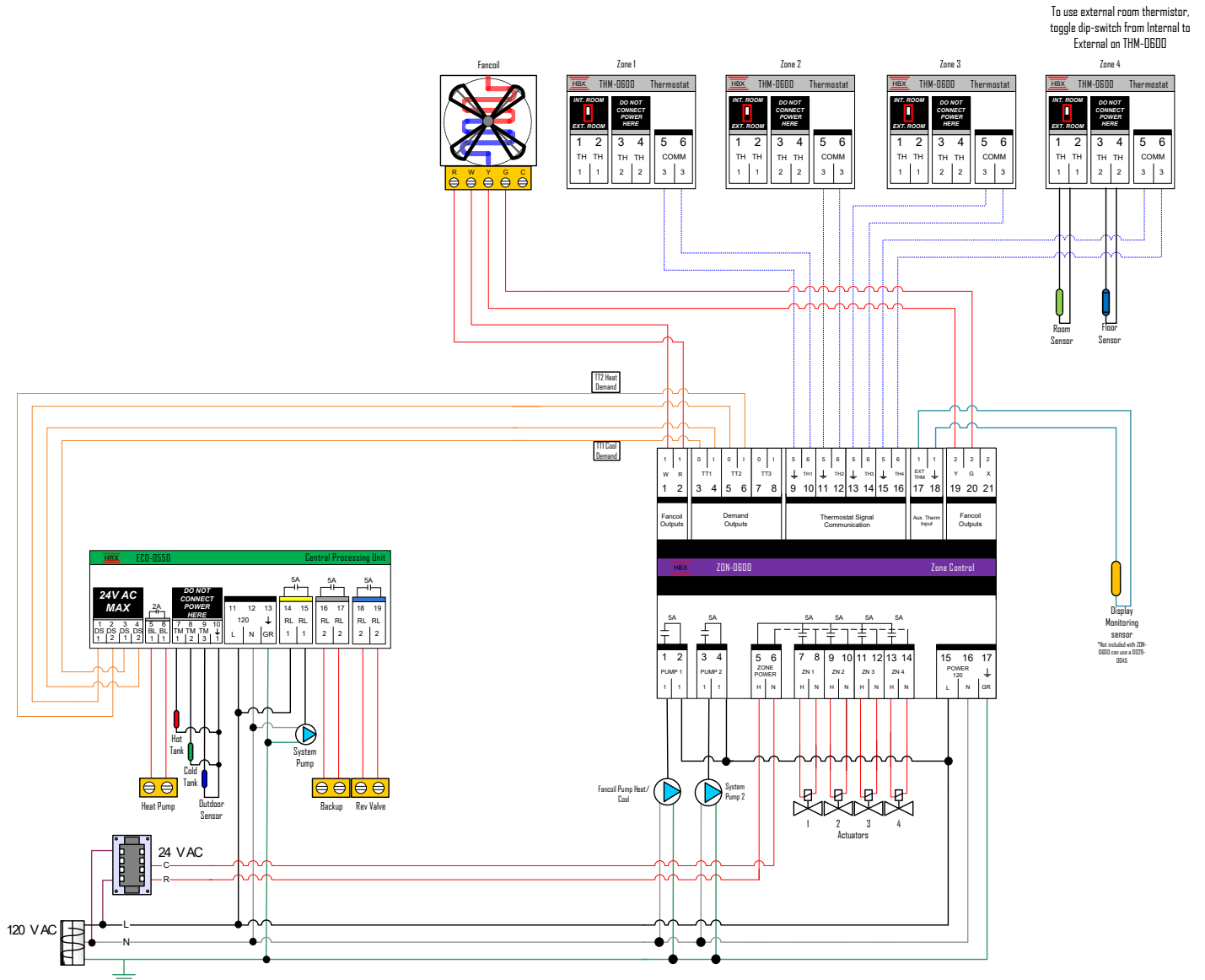
2) Standalone with THM-0600 and Zone Valves/Actuators



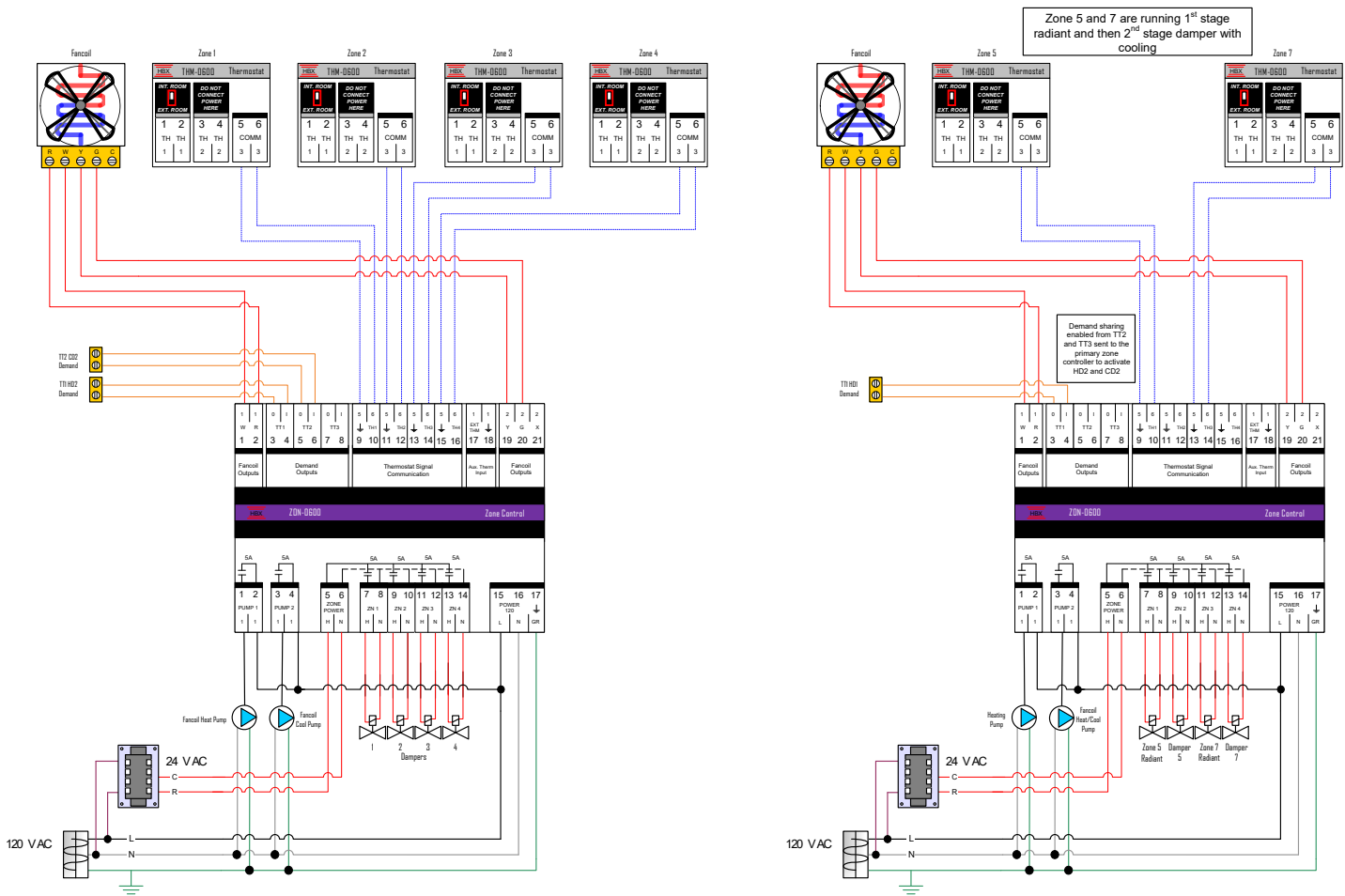
3) 2 Linked ZON-0600 Controls with THM-0600 and Zone Pumps and Valves



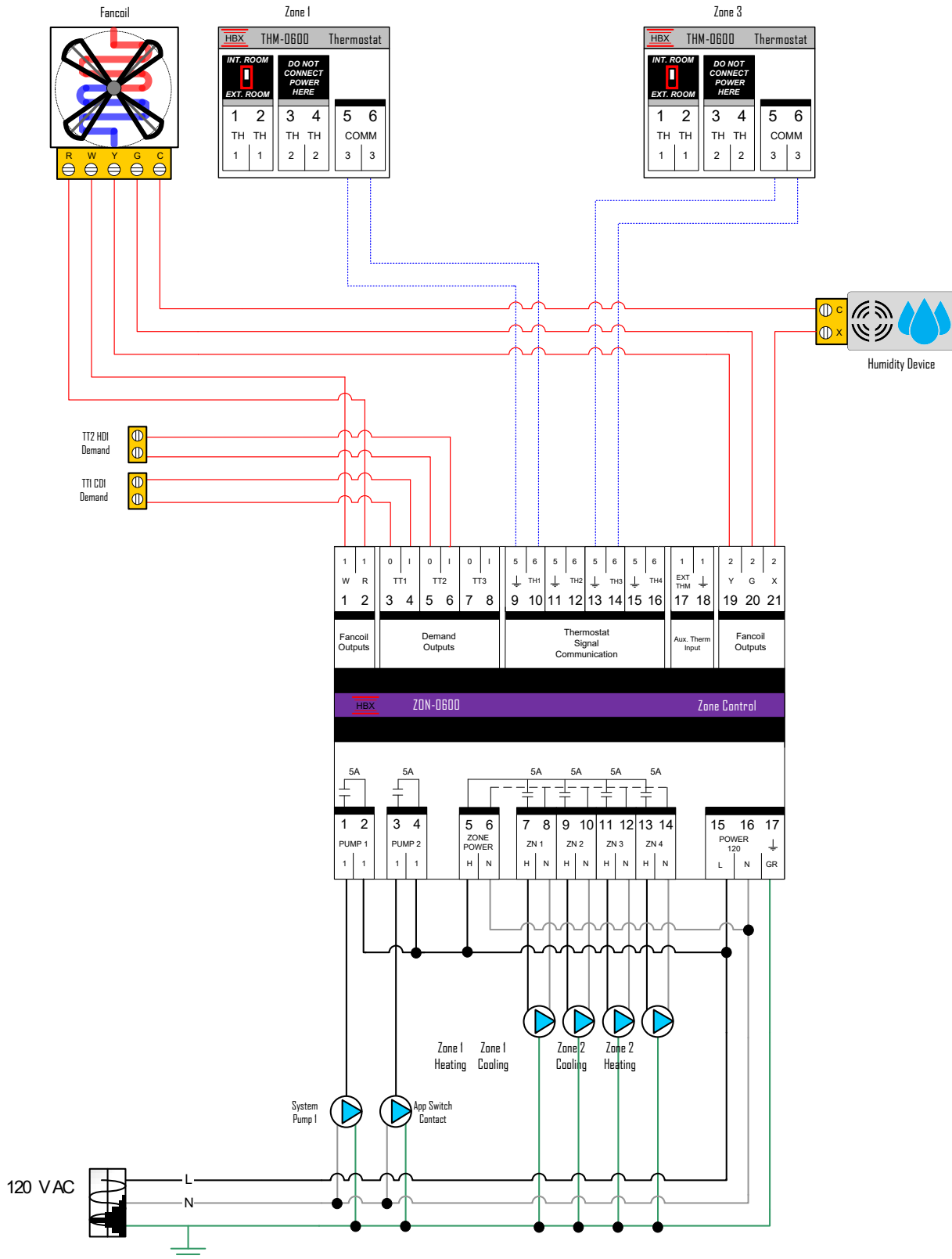
5) ZON-0600 and ECO-0550 with THM-0600 and Zone Valves



6) ZON-0600 with Zone Valves and Dampers



7) ZON-0600 Utilizing 4-Pipe and THM-0600



ZON-0600 TROUBLESHOOTING GUIDE

ISSUE	POSSIBLE CAUSES & RESOLUTIONS
No Power	<ul style="list-style-type: none"> • Verify that a 120VAC is present on pins 15-16-17.
Zone output won't turn on	<ul style="list-style-type: none"> • Verify that the appropriate power is connected to pins 5-6. • If the zone is not outlined in green ensure a demand is present at the thermostat. • Ensure the proper demand type on the thermostat is correct on the THM-0600 (see manual). A fancoil demand will only turn the zone output on if zone on demand is set to yes (see THM-0600 manual) • Check priorities settings
System pump output won't turn on	<ul style="list-style-type: none"> • Verify wiring • A zone demand needs to be made for the system pump to turn on. • Ensure the pump type is correct. • The system pump output is on each zone control is only associated with those 4 zones if multiple zone modules are controlling the same system pump, then the system pump outputs should be wired in parallel. • Check priorities settings
Fancoil outputs won't turn on	<ul style="list-style-type: none"> • Verify wiring • Check the demand settings. See THM-0600 manual • Check priorities settings
Demand outputs won't turn on/ wrong demands turning on	<ul style="list-style-type: none"> • Verify proper demand is selected. • In special functions on the THM-0600, make sure you have correctly set your demand options.
Thermostat won't power	<ul style="list-style-type: none"> • Verify wiring. • Check wiring polarity in pins 5-6. • Check zone setup options that the damper zones are set correctly (see THM-0600 manual) • Check that four-pipe is activated. • THM-0600 thermostat(s) will take up 120 seconds to power up.
Zones modules not linking	<ul style="list-style-type: none"> • Check zone sequence on each module. • On any secondary ZON-0600, verify the primary ID is set correctly. • Ensure the zones modules are within range.

**For additional assistance with the ZON-0550, please contact
our Technical Support Department toll free at:**

+1 (855) 410-2341

Limited Warranty

HBX Controls warrants each of its products to be free from defects in workmanship and materials under normal use and service for a period of 24 months from date of manufacture or 12 months from date of purchase from an HBX Authorized Dealer, if within the above documented period after date of manufacture.

If the product proves to be defective within the applicable warranty period, HBX on its sole discretion will repair or replace said product. Replacement product may be new or refurbished of equivalent or better specifications, relative to the defective product. Replacement product need not be of identical design or model. Any repair or replacement product pursuant to this warranty shall be warranted for not less than 90 days from date of such repair, irrespective of any earlier expiration of original warranty period. When HBX provides replacement, the defective product becomes the property of HBX Controls.

Warranty Service, within the applicable warranty period, may be obtained by contacting your nearest HBX Controls office via the original Authorized Agent and requesting a Return Material Authorization Number (RMA #). Proof of purchase in the form a dated invoice/receipt must be provided to expedite the issuance of a Factory RMA.

After an RMA number has been issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit. The RMA number must be visible on the outside of the package and a copy included inside the package. The package must be mailed or otherwise shipped back to HBX with all costs of mailing/shipping/insurance prepaid by the warranty claimant.

Any package/s returned to HBX without an approved and visible RMA number will be rejected and shipped back to purchaser at purchaser's expense. HBX reserves the right, if deemed necessary, to charge a reasonable levy for costs incurred, additional to mailing or shipping costs.

Limitation of Warranties

If the HBX product does not operate as warranted above the purchasers sole remedy shall be, at HBX's option, repair or replacement. The foregoing warranties and remedies are exclusive and in lieu of all other warranties, expressed or implied, either in fact or by operation of law, statutory or otherwise, including warranties of merchantability and fitness for a particular purpose/application. HBX neither assumes nor authorizes any other person to assume for it any other liability in connection with the sale, installation maintenance or use of HBX Controls products.

HBX shall not be liable under this warranty; if its testing and examination discloses that the alleged defect in the product does not exist or was caused by the purchasers or third persons misuse, neglect, improper installation or testing, unauthorized attempts to repair or any other cause beyond the range of intended use, or by accident, fire, lightning or other hazard.

Limitation of Liability

In no event will HBX be liable for any damages, including loss of data, loss of profits, costs of cover or other incidental, consequential or indirect damages arising out of the installation, maintenance, commissioning, performance, failure or interruption of an HBX product, however caused and on any theory of liability. This limitation will apply even if HBX has been advised of the possibility of such damage.

Local Law

This limited warranty statement gives the purchaser specific legal rights. The purchaser may also have other rights which vary from state to state in the United States, from Province to Province in Canada and from Country to Country elsewhere in the world.

To the extent this Limited Warranty Statement is inconsistent with local law, this statement shall be deemed modified to be consistent with such local law. Under such local law, certain disclaimers and limitations of this statement may not apply to the purchaser. For example, some states in the United States, as well as some governments outside the United States (including Canadian Provinces), may:

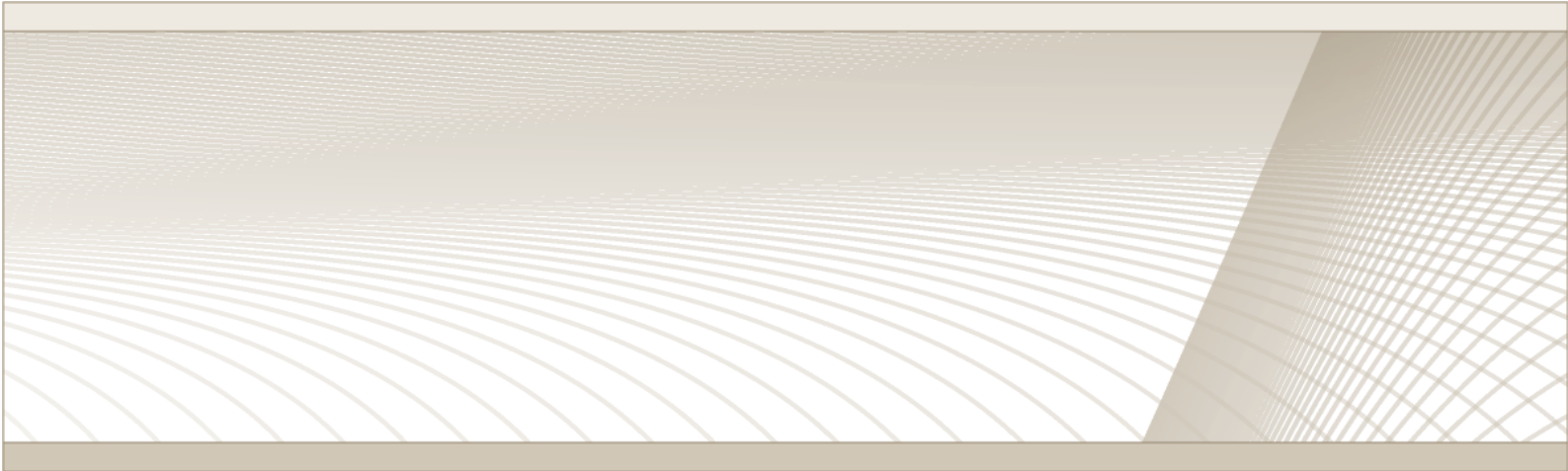
Preclude the disclaimers and limitations in this statement from limiting the statutory rights of a consumer (e.g. United Kingdom);

Otherwise restrict the ability of a manufacturer to enforce such disclaimers or limitations; or

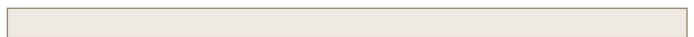
Grant the purchaser additional warranty rights which the manufacturer cannot disclaim, or not allow limitations on the duration of implied warranties.

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

Toll Free Technical Support: +1 (855) 410 2341



HBX Control Systems Inc.
4516 - 112th Avenue SE
Calgary, AB Canada T2C 2K2



© HBX Control Systems Inc. 2021