

# AquaHeat Installation Guide

## Control Systems

A systems approach integrating established and emerging technologies



## System Design and Installation

### The Mains

PEX pipe mains are recommended to reduce labor and architectural impact. For a slab-on-grade installation, the mains can be buried below or within the slab. For below slab installation refer to insulated supply and returns like ComfortPro Systems Microflex product range. For a wet or dry on plywood application, the mains can be installed within the joist cavity. Always allow for the expansion and contraction of the mains, as the temperature fluctuates. It is recommended that the pipe be allowed free movement and is not fastened directly to the floor joists.

### Requirements of a hydronic control system

The intent of a hydronic heating control system is to achieve heating comfort, system protection, energy saving and ease of use.

Heating comfort is achieved by:

- keeping proper system temperatures
- directing the right amount of heat when and where you want it

System protection is achieved by:

- protecting the primary heat source (e.g. boiler) from corrosion and thermal shock
- reducing equipment cycling

Energy saving is achieved by:

- running the system at the lowest water temperature possible
- turning off the system when no heat is demanded
- minimizing boiler short cycling.

Ease of use is achieved by:

- running automatic functions in lieu of manual settings
- providing easy and consistent wiring and installation procedures

## AquaHeat Installation Guide Philosophy

A hydronic system can get quite complicated and with the rapid introduction higher integrated solutions keeping up is challenging more than ever. To keep the basic installation order we have build this series of guides to reflect the typical steps in the implementation of a project.

### AquaHeat Control System

AquaHeat ProZone Control Systems	4
AquaHeat ProZone Control System components	4
Zone Definition	5
Recommended Control System per Loop count	5
Step - by - step Installation at a glance	6
General Installation Guidelines	7
Wiring	7
Component Locations	7
Pro Thermostat Installation Locations	8
AquaHeat Actuators	9
ProMix Manifold actuators	9
Actuator Operation	10
Mechanical Installation of ProZone Actuator	10
Connecting the ProZone Actuator	11
Combining the Pro Zone Master/Slave	12
Pro 4 and 6 Zone Master with Pump Relay Box	13
Pro 4 and 6 Zone Slave Box	14
AquaHeat Thermostats	
Pro Basic and "Dual Sensing"	15
Pro Digital Dual Sensing	15
Thermostat Features Overview	16
Thermostat Dimensions	17
Thermostat Wiring	18-19
Configuring Pro Series Thermostats for dual sensor applications	20-21
Installing External Sensors	22

### AquaHeat ProZone Control Systems

AquaHeat ProZone control systems come in various scalable building blocks which makes the systems suitable for every application.

System Components are grouped into

- Actuators
- Control Box
- Timer Box
- Thermostats
- Sensors

The ComfortPro AquaHeat ProZone control system allows for various combinations of these individual components to fit budget, size, and user convenience.

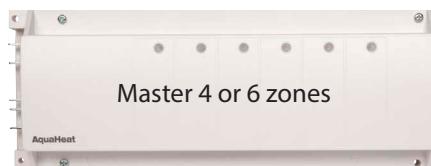
### AquaHeat ProZone Control System components



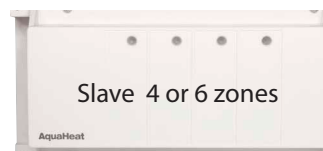
Basic T-Stat



Digital dual sensing T-Stat



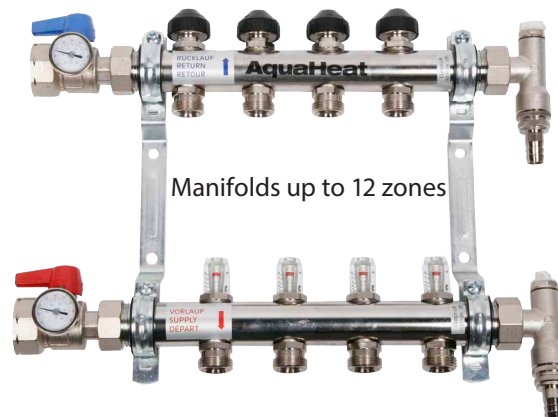
Master 4 or 6 zones



Slave 4 or 6 zones



Actuators



Manifolds up to 12 zones

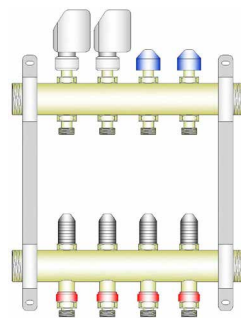
### Zone Definition

A Heating Zone is defined as an individual or grouped section of the whole heating system, which is controlled at once. In the simplest case a zone is characterized by a single floor loop of PEX pipe connected to a manifold. A Zone can also comprise of several floor heating loops connected to a manifold and controlled by a single controller/thermostat. Ultimately, a Zone can comprise of a complete manifold which is controlled by a single zone valve in front of the manifold injection loop.

Manifolds are typically operated by electro-mechanical servo motors to open and close individual floor loops water circulation at the supply side loop valves which in turn are controlled through the ProZone control box and/or directly through thermostats.

### Recommended Control System per Loop count

Loop actuators can be connected as single or individual zones



Single loop actuator to control a whole manifold

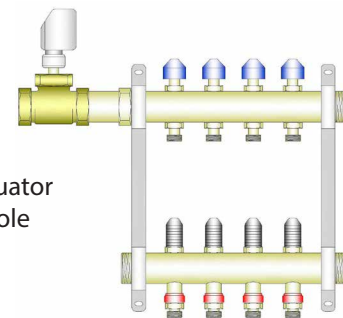


Fig 2 - Zone Definitions

The ProZone heating control system can be scaled for every project. Key indicator for the requirements of a floor heating system is the number of PEX pipe floor heating loops used in the project.

Examples are:

#### 1. Simple, one zone system

A very basic system comprises of a manifold like the AquaHeat ProMix or ProLock manifold with one or more floor PEX pipe loops combined to a single zone. In this case, the floor heating system can be controlled by a single thermostat like AquaHeat Pro Basic thermostat. One actuator is controlled by the thermostat and regulates the flow of heat into the manifold loops through a zone valve in front of the manifold supply line.

#### 2. Multiple Zone System

For a multiple zone system each zone is controlled by a thermostat and/or a ProZone control box. In this case, the actuators mounted to the manifold are grouped to its individual zone and typically connected to a ProZone control box. The ProZone control box allows for a clean installation without extensive wiring. The control box connects again the Zone to the individual thermostat.

#### 3. Multiple Zone system with multiple manifolds and timer control

In larger projects it is often required to use several manifolds for many floor loops. The following considerations should be observed:

If more than one manifold is used (based on large living area coverage or higher than usual zone division) group manifolds according to controlled zones. Make sure that control box and actuators receive enough power to support the operation (i.e. size the supply power transformer accordingly).

Radiant Heating Floor Loops								
		Part #	1 - 3	4	6	10	12	18
Pro Thermostats	ProBasic	450008	•	•	•	•	•	•
	Pro Digital Dual Sensor	450010	×	×	×	×	×	×
ProZone Control Box	Pro 4 Zone Master	450003		•		×		
	Pro 6 Zone Master	450004			•	•	•	•
	Pro 4 Zone Slave	450005				•		
	Pro 6 Zone Slave	450006				×	•	•

• Required/recommended components

× Alternative components

Table 1 - Control System Recommendation per Floor loop count

### Step - by - step Installation at a glance

1. Mount all components of the system, i.e. Control Boxes, Transformer, Timer boxes, thermostats, actuators, external sensors
2. Connect the actuators to the control box or in a simple case to the thermostats directly
3. Connect the thermostats and sensors
4. Connect the pump power cable to the Master control module
5. Connect the transformer to either thermostat or AquaHeat ProZone master control box
6. After completed electrical wiring power-up the system
7. Check whether all zones are opening the actuators and the injection loop starts pumping
8. Set thermostats minimum and maximum temperature range
9. Calibrate thermostats for exact temperature

### General Installation Guidelines

These step - by - step instructions explain the full installation for the ProZone Control System. Before an installation can occur the following general guidelines and pre-requisites have to be maintained:

### Wiring

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Wiring of the system is divided into two groups of wires needed for the operation of the system. ComfortPro recommends using the following minimum wire diameters as defined by the American Wire Guide (AWG):

#### Thermostat wiring

Thermostat	AWG	Diameter
Pro Basic (2 wire)	24	0.0201"
Pro Basic (4 wire)	18	0.0403"
Pro Digital (2 wire)	24	0.0201"
Pro Digital (4 wire)	18	0.0403"

Table 2 - Wire Sizes

#### Actuator Wiring

AquaHeat ProZone actuators come with a 3ft pre-sealed 2-pole cable. If the length of the cable needs to be extended use AWG size 18 or better 17 type wiring.

#### Control Box Power supply

For power line wiring the usual AWG sizes should be used. If the low voltage side after the transformer has to be extended to reach the Control Box or thermostat, caution should be taken to use a strong copper cable in order to minimize power loss along a longer wire.

### Component Locations

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All system components should be installed in the most reasonable distance to their connected modules. Caution should be taken in small spaces so that the system components (like power transformers) are not overheating.

Control Boxes should be mounted on a DIN rail above the Manifold within 1-3ft of the manifold. There should be a power outlet to the left side of the DIN rail for most convenient installation. We recommend the thermostat wiring sparing on top of the DIN rail. If a manifold cabinet is used it is recommended to size the cabinet with respect to the Control boxes size.

Maximum DIN rail length or wall space used is approx. 25 inches.

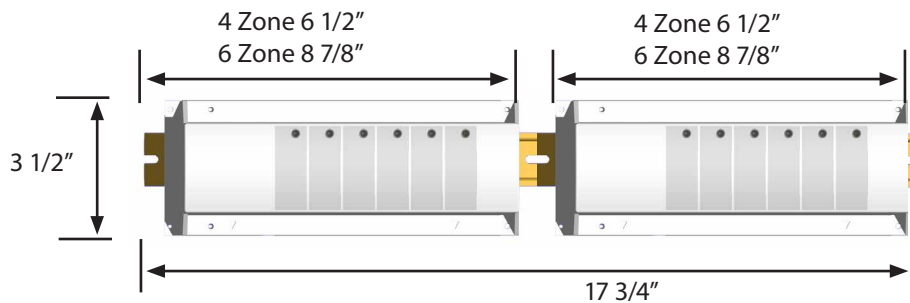


Fig 3 - ProZone Module Dimensions

### Pro Series Thermostat Installation Locations

When installing thermostats in a new development the following aspects have to be taken in consideration.

- Select the location of the thermostat conveniently for the user
- Install thermostat on the inside walls of the building/dwelling
- Install thermostat minimum 8 inches away from doors.
- Thermostats should be mounted approximately 54 - 60 inches from the floor

Note: Avoid mounting thermostats close to windows, on outside walls, behind doors, close to the floor or ceiling and other cooling or heating devices

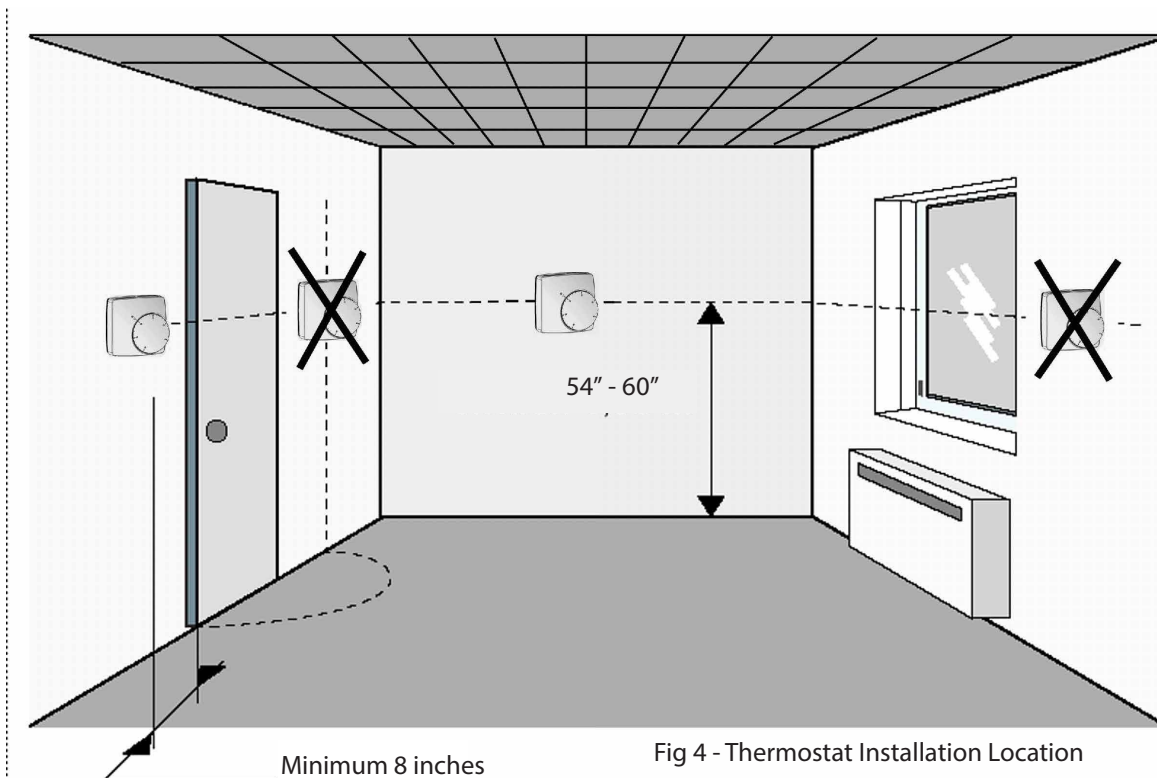
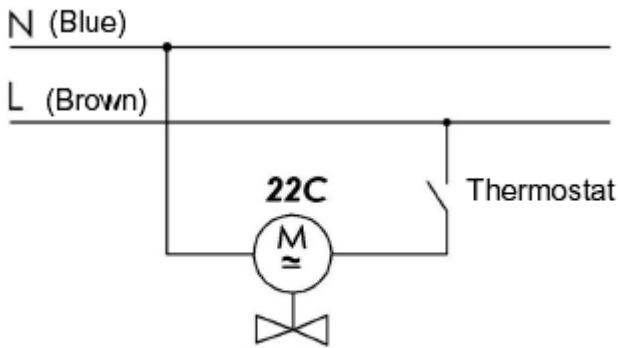


Fig 4 - Thermostat Installation Location

AquaHeat Actuators (P/N 450001, 2 - wire) or (P/N 450002, 4 - wire)

AquaHeat offers two kind of actuators for Promix and ProLock manifolds. AquaHeat actuators operate on 24VAC supply voltage and can be controlled through the ProZone Control Box or directly through the thermostat. Actuators come as 2 and 4 wire models. 4 wire models include an additional end switch (black and grey cable) which can be used to control a pump. AquaHeat offers both models to give optimal system versatility to the systems design.

Wiring Diagram - 2-wire



Wiring Diagram - 4-wire

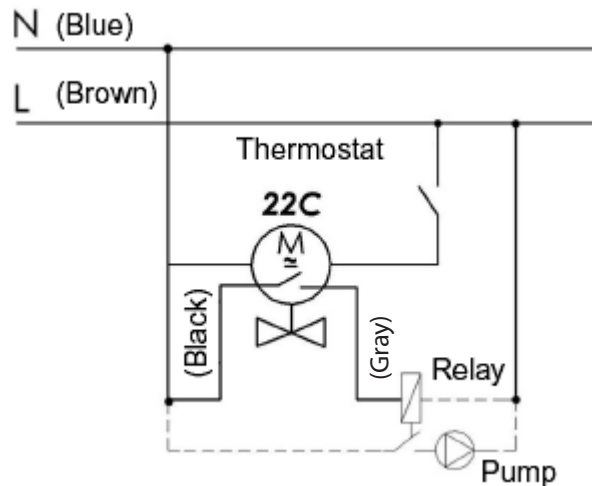


Fig 5 - Actuator wiring diagrams

### NC Actuators (Normally Closed)

AquaHeat actuators are operated as normally closed (NC) versions, i.e. during normal or stand-by operation the manifold loop supply valve is closed and no water is pumped through the loop. Upon request from either the ProZone Control box or the thermostat the actuator drives open the manifold loop supply valve and fresh heating water is pumped through the floor loop. When the room temperature in the room or floor reaches the desired target temperature the thermostat or ProZone Control Box closes the loop supply valve through the drive of the actuator into the NC position.

### ProMix Manifold actuators Actuator Operation

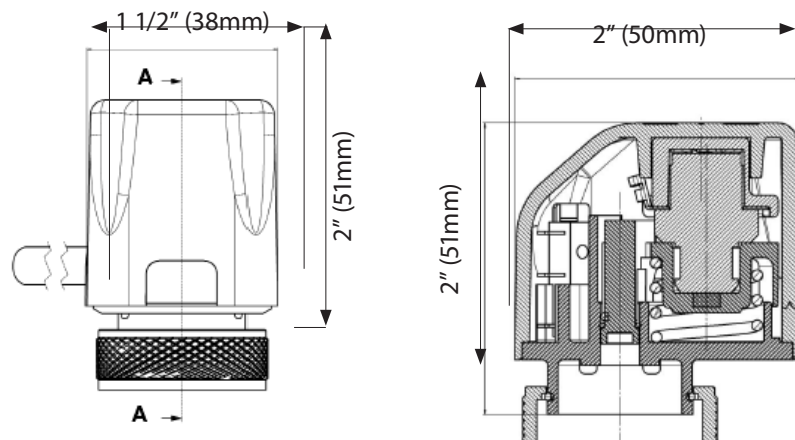
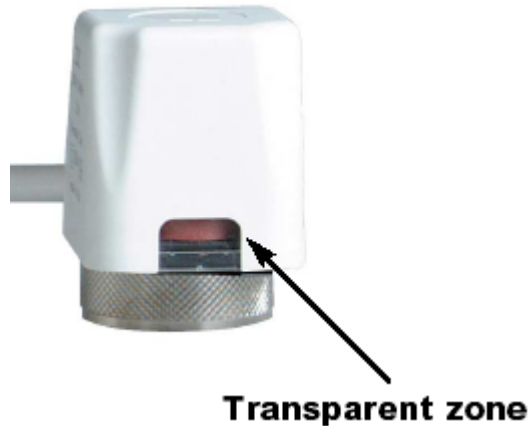


Fig 6 - ProZone Actuator Dimensions

When the thermostatic element expands, it supplies the thrust required for automatic movement of the valve. The 4-wire version is provided with an auxiliary contact for additional commands (metering, control of pump, fan or other equipment). The actuator has a transparent window that allows to check the status of the actuator on the actuator cover.

### Mechanical Installation of the ProZone Actuator



Transparent Zone	Valve
Red	Closed
Black	Open

Fig 7 - Actuator Indicator

1. Remove handle or cap from the body valve.
2. Position the actuator and tighten the ring nut of the actuator manually onto the body valve.  
Do NOT use pipe wrenches, spanners or similar.
3. Connect electrical wiring.

### Important maintenance notes

Do not replace the connected cable. Opening the ProZone actuator will cause irreparable damage to the device.  
Faulty actuators must be replaced as complete units.

Fig 8 - ProZone Actuator Mount



### Technical Characteristics

Action Open/Close  
 Power supply 24 VAC (+10% / -15%)  
 Frequency 60 Hz  
 Power consumption (normal operation) 2.5 VA  
 Peak starting current 0.35 A x 30 sec (24V)  
 Initial opening (NC) or closing (NA) time (power ON) 24V 3 min  
 Final opening (NC) or closing (NA) time (power ON) 5 min  
 Actuator stroke max 3.5 mm  
 Valve stroke 2.5 mm  
 Protection class IP44 to EN60529  
 Electrical Protection class II  
 Safety (contamination level) 2  
 Cable length 3ft

2-pole x 0.75 mm<sup>2</sup>  
 4-pole x 0.75 mm<sup>2</sup>  
 Operation temperature limit 32 - 122°F  
 Storage temperature limit -13 - 140°F  
 Fluid temperature limit Max 230°F  
 Nominal closing force (power OFF) (Closed type) 140 N (±10%)  
 Auxiliary microswitch (4-wire model) max 700 mA - 24Vac  
 Valve connection Threaded ring nut M30x1.5

### Connecting the ProZone Actuator

Actuators can either be connected directly to thermostats in a single zone environment or for multiple zones we emphasize the use of the ProZone Master control box. By using a ProZone master control box one or more actuators are being connected to a single zone at the zone connector bench. Each Zone connector bench can connect up to 4 actuators, i.e. two cables per screw connector.

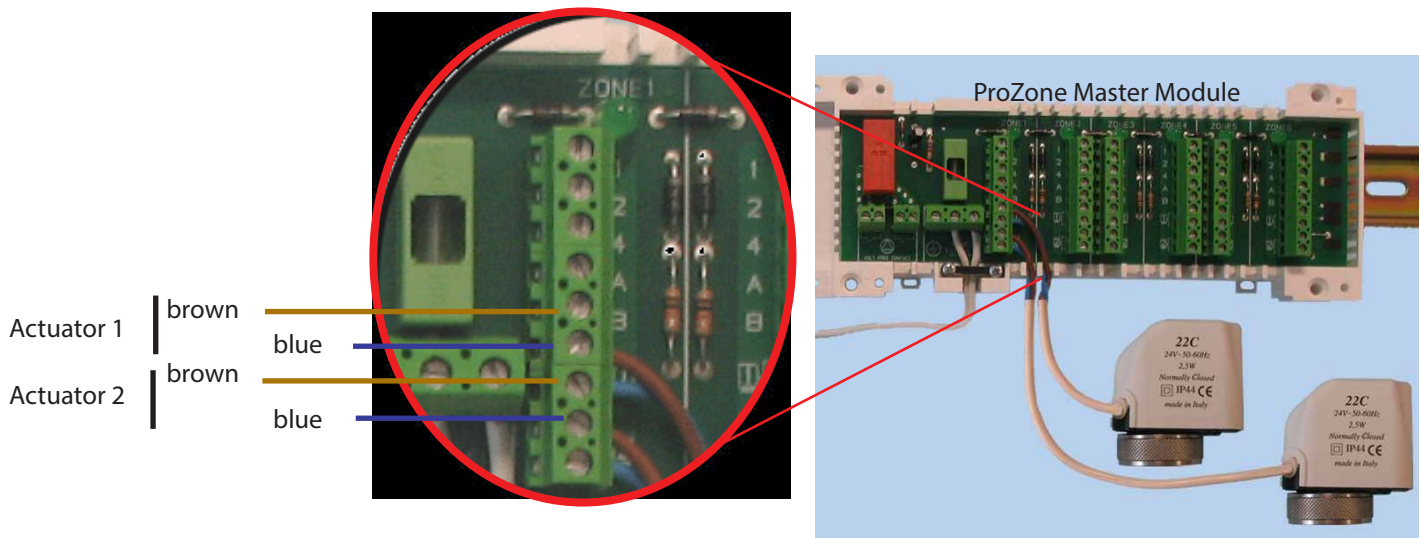
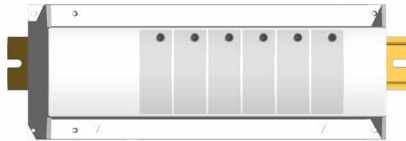


Fig 9 - ProZone Actuator Connection

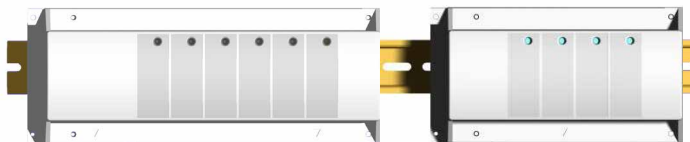
#### Combining the Pro Zone Master/Slave

Before connecting the thermostats and actuators the control boxes have to be properly connected. The following combinations and positions mounted on a DIN-rail are possible. The units snap into each other after the Master cover is being removed.

Pro 6 Zone MASTER



Pro 6 Zone MASTER + Pro 4 Zone SLAVE



Pro 6 Zone MASTER + Pro 6 Zone SLAVE

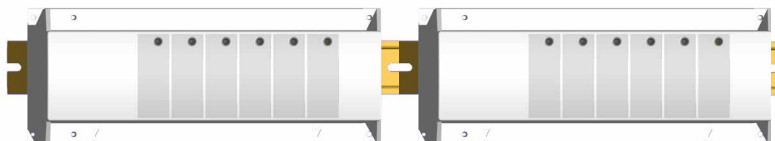


Fig 10 - ProZone Module combinations

#### Quick Installation Instructions for ProZone Module assemblies

1. Open ProZone Master module cover by unscrewing three screws from the Master module cover front. Note that the fourth screw is delivered in a plastic bag within the package.

2. Slide the male connector clips from either the Slave or the Timer box sideways over the edge of the circuitboard. Note you can adjust the height of the male connector clamps by hand. See Fig 11.

3. Clip into the DIN rail or use screws to screw housings directly to the drywall (4 screws /module)

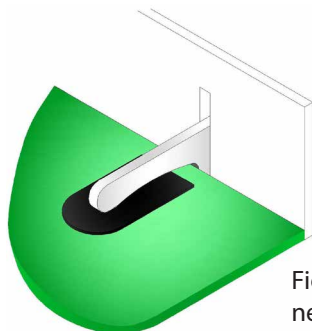
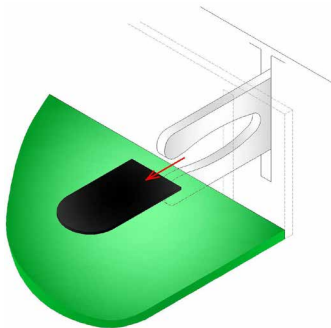


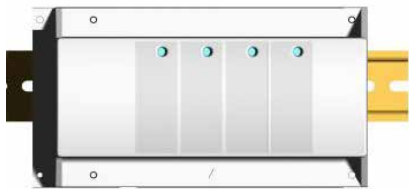
Fig 11 - ProZone Module connectors

### Pro 4/6 Zone Master Control Box

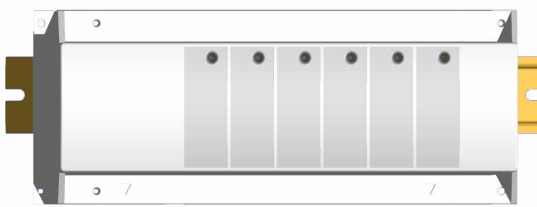
#### Pro 4 and 6 Zone Master with Pump Relay Box

ProZone Master modules are the essential modules for any sophisticated control system. A Master module provides power supply to multiple zones. On-board pump relay controls the circulator and or mixing pumps directly. Activity in one zone is indicated by a green LED diode. The master module conveniently allows to connect thermostats and actuators and assign zones to your projects. The Master Module comes as 4 (P/N 450003) and 6 Zone (P/N 450004) control box.

#### Pro 4 Zone Master



#### Pro 6 Zone Master



#### Technical Characteristics

Operating temperature	32°F - 122°F
Circuit Protection	Class I - IP20
Power supply	24 VAC +/- 10%
Output	<p><u>Pump &amp; accessories:</u> Relay =&gt; 2 free contact 8A 120Vac</p> <p><u>Zones:</u> 4 or 6 independent zones =&gt; the maximum output power of each zone depends on thermostat connecting on this zone. The maximum current for all connected actuators is 2.5A</p>
LED Zone Indicator (green)	heating indicator shows water circulation

Fig 12 - ProZone Master Modules

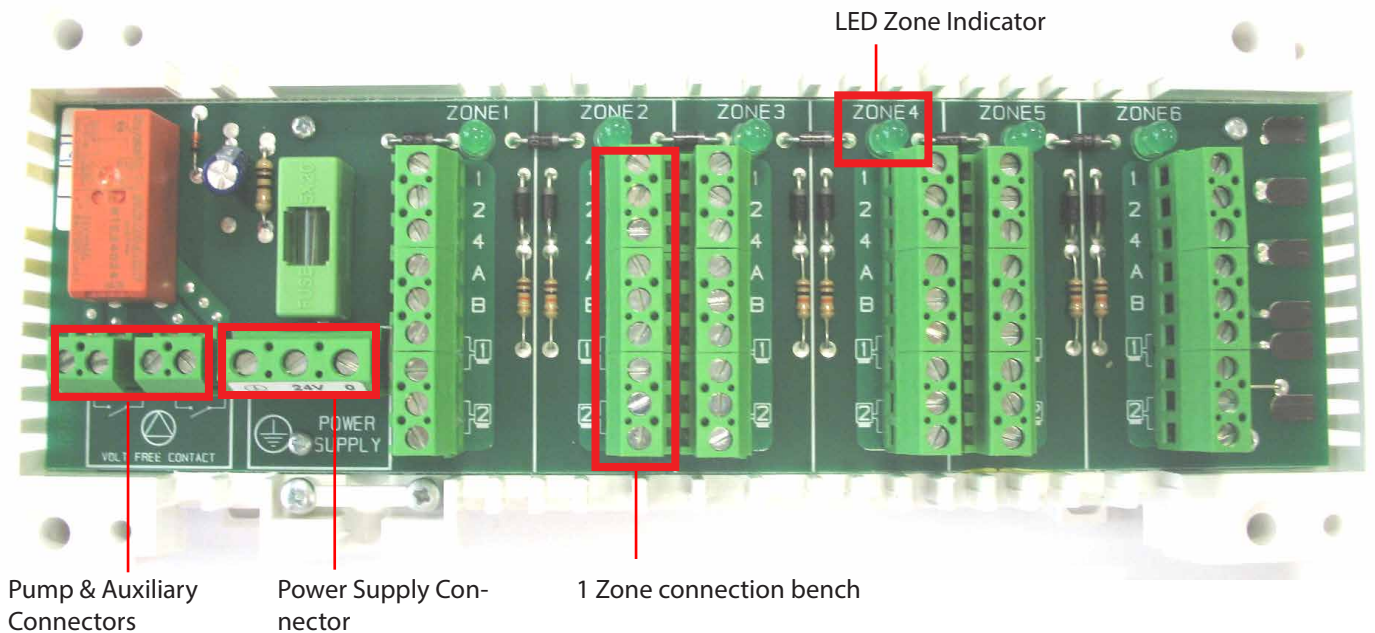
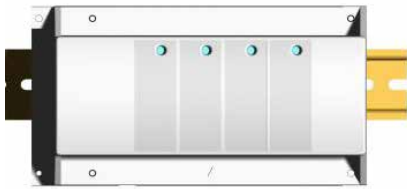


Fig 13 - ProZone Master Module PCB

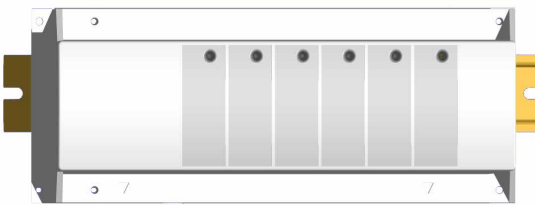
### Pro 4 and 6 Zone Slave Box

ProZone Slave modules allow for the Zone extension of the Master module functionality. The easy clip-in extender provides a fast and reliable connection to the Master module. Two extension modules (P/N 450005 - 4 Zone, P/N 450006 - 6 Zone) are available if additional thermostats and actuators are needed for the system design.

#### Pro 4 Zone Slave



#### Pro 6 Zone Slave



#### Technical Characteristics

Operating temperature	32°F - 122°F
Protection	Clase I - IP20
Power supply	24 VAC +/- 10% 60Hz
Output	<u>Zones:</u> 4 or 6 independent zones => the maximum output power of each zone depends on the number of thermostats connecting to this zone. The maximum current for all connected actuators is 2.5A
LED Zone Indicator (green)	heating indicator shows water circulation

Fig 14 - ProZone Slave Module

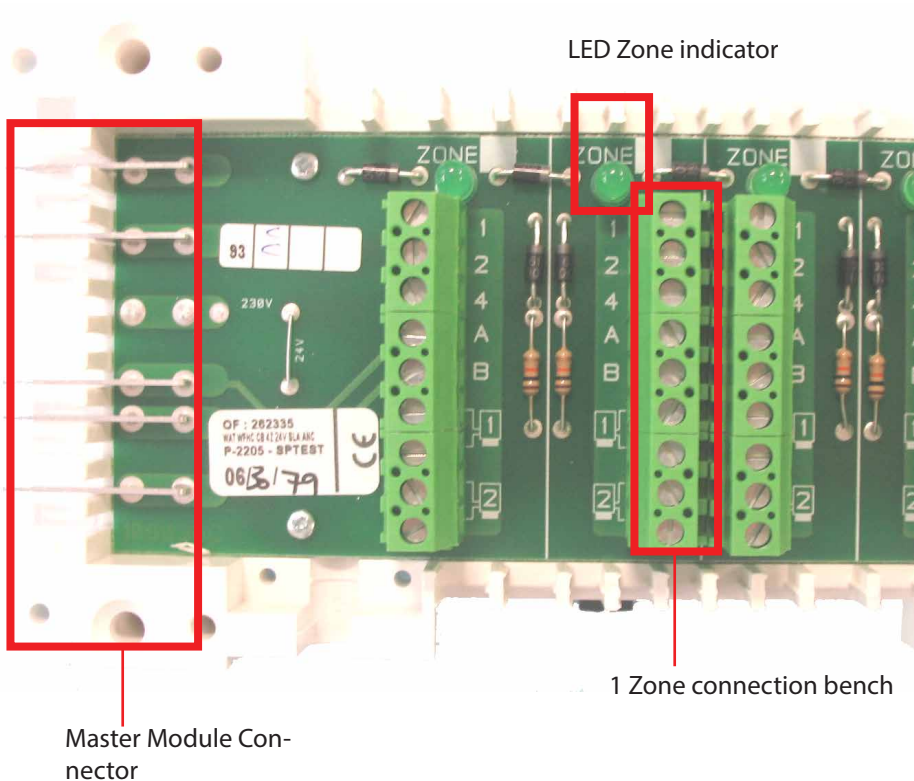


Fig 15 - ProZone Slave Module PCB

### Selecting Thermostats

ComfortProSystems offers a wide range of Thermostat solutions which will fit your design. In order to easily identify the combination of products for your complete Heating project please look at the following table (chpt 2-1)

#### Pro Basic (P/N 450008)

Thermostats contain a temperature dial which can be calibrated to reflect the correct room temperature. Pro Basic Stats can drive an actuator directly through the on-board quiet triac.



Fig 16 - ProBasic Thermostat

Measured temperature precision	0.2°F
Operating temperature	32°F – 122°F (0°C - 50°C)
Setting temperature range	41°F - 86°F (5°C – 30°C)
Floor limiting temperature range	50°F - 104°F (10°C – 40°C)
Regulation characteristics	Proportional band 10min for 3.6°F or Static differential 0.9°F
Electrical Protection	Class II - IP30
Power Supply	24 VAC +/- 10%
Output	TRIAC output 24 VAC, 15 W max. ( 4 CPS ProZone actuators)
External Floor sensor	NTC (10K Ohms) 9ft
Soft version	V 1.4x

#### Pro Digital Dual Sensing (P/N 450010)

Pro Digital thermostats contain a display through which all interaction with the floor heating system is controlled. The functions are similar to Pro Basic thermostats and come with on-board sensor (part # 450010).



Fig 17 - ProDigital Thermostat

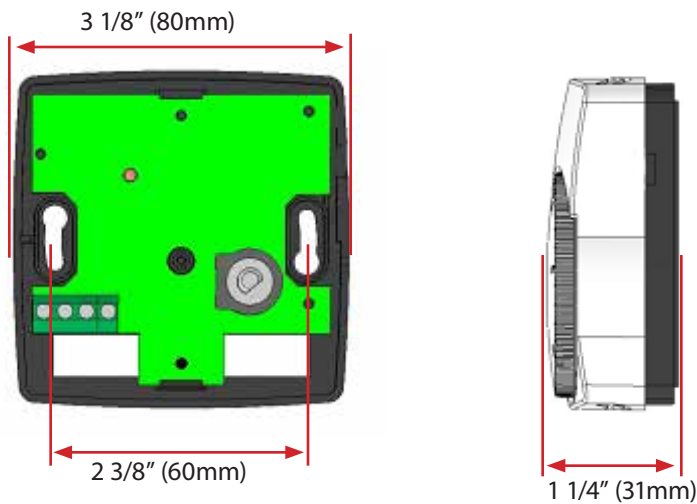
Measured temperature precision	0.2°F
Operating temperature	32°F – 122°F (0°C - 50°C)
Setting temperature range	41°F - 99°F in 0.5°F increments (5°C - 37°C)
Regulation characteristics	Proportional Integral regulation (adjustable, see installation menu) Cycle: 15 minutes or Static differential 0.5°F Anti-short cycle: 3min in OFF, 2min in ON.
Electrical Protection	Class II - IP30
Power Supply	24 VAC +/- 10%
Output	TRIAC output 24 VAC, 15 W max. ( 4 CPS ProZone actuators Part #450014 )
External Floor sensor	NTC (10K Ohms) 9ft

### Thermostat Features Overview

Features		Pro Basic	Pro Digital Dual Sensor
Part #		450008	450010
Sensor	On-Board	•	•
	External Probe (Sensor)		•
Direct Drive (Actuator)	Triac (24V <sub>AC</sub> )	•	•
	Relay		
Mode Selector	Day - Comfort		•
	Night - Reduction		•
	Duty Cycle		
Heating/Cooling Control	Heating	•	•
	Cooling		
Clock Timer			
Digital Display			•
Proportional Adjustment (Hysteresis)			•
Temperature Dial		•	
Digital Button Control			•
Auxiliary Relay hookup (4 wire operation)			

Table 3 - Pro Series Thermostat Features

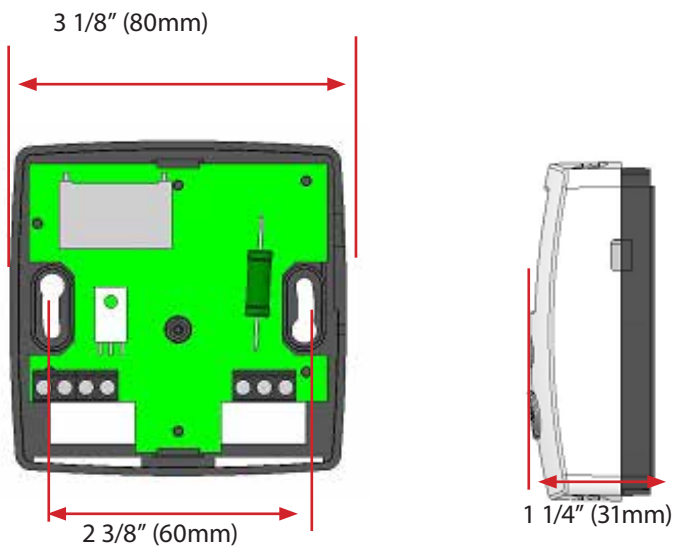
### Pro Basic (P/N 450008)



Installation Steps (see also product instructions in package)

1. Lift temperature dial from thermostat
2. Loosen visible screw to open thermostat body
3. Pull connection wiring through appropriate bottom hole (optional external sensor wiring as well)
4. Use appropriate wall screws to affix thermostat body at desired location.
5. Connect wiring according to connector ID in section "Thermostat Wiring"
6. Close thermostat cover by tightening screw
7. Push temperature dial on potentiometer half moon stub

### Pro Digital Dual Sensor (P/N 450010)



Installation Steps (see also product instructions in package)

1. Lift center rubber lid from thermostat
2. Loosen visible screw to open thermostat body
3. Pull connection wiring through appropriate bottom hole (optional external sensor wiring)
4. Use appropriate wall screws to affix thermostat body at desired location.
5. Connect wiring according to connector ID's in section "Thermostat Wiring"
6. Close thermostat cover by tightening cover screw
7. Push protective center rubber lid back onto opening

### Thermostat Wiring

All AquaHeat ProZone Control System thermostats are wired via two or four cables. Two cables are required for supply power and signaling to the thermostat and two wires are for driving the actuator directly to the actuator or through the ProZone Box. For wiring of the thermostat the following AWG sizes are required:

Minimum AWG size 24 for thermostat signaling

Minimum AWG size 18 or lower for driving the actuators directly

For dual sensor thermostats the wiring is typically provided with the probe.



Connector #	Signal
1	Thermostat (24V)
2	Actuator (24V)
4	Grd
4	Grd

Table 4 - Pro Series Thermostat Wiring

### Connecting Pro Basic Thermostats to the ProZone master/slave zone module

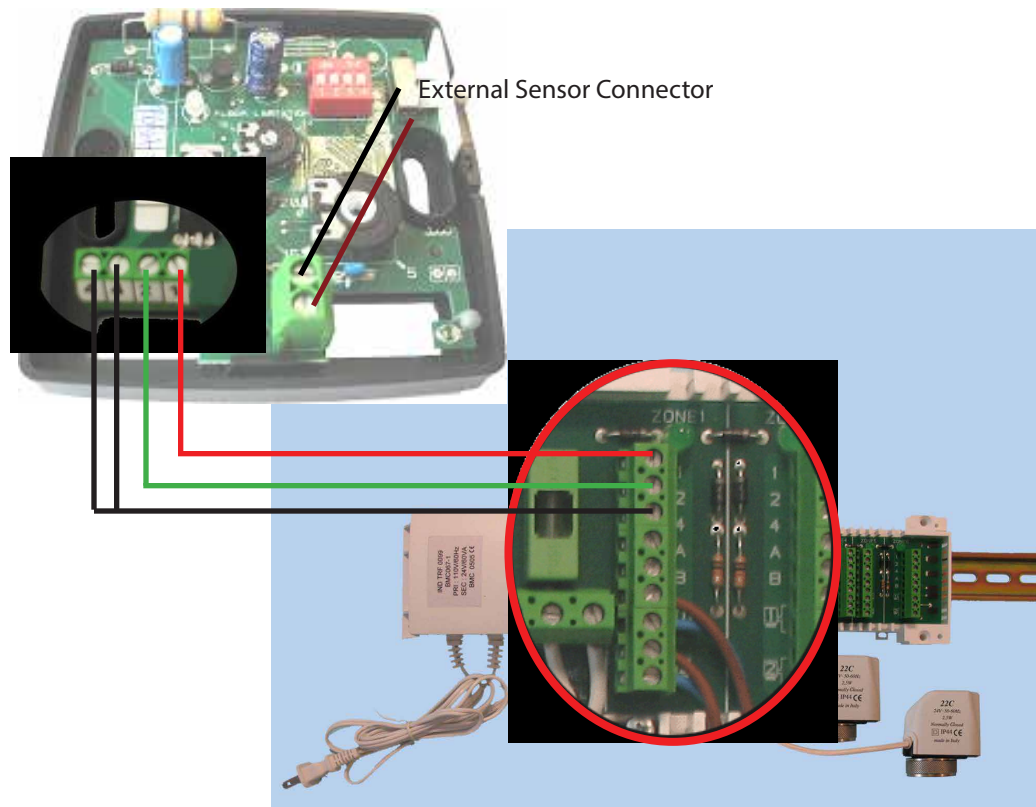
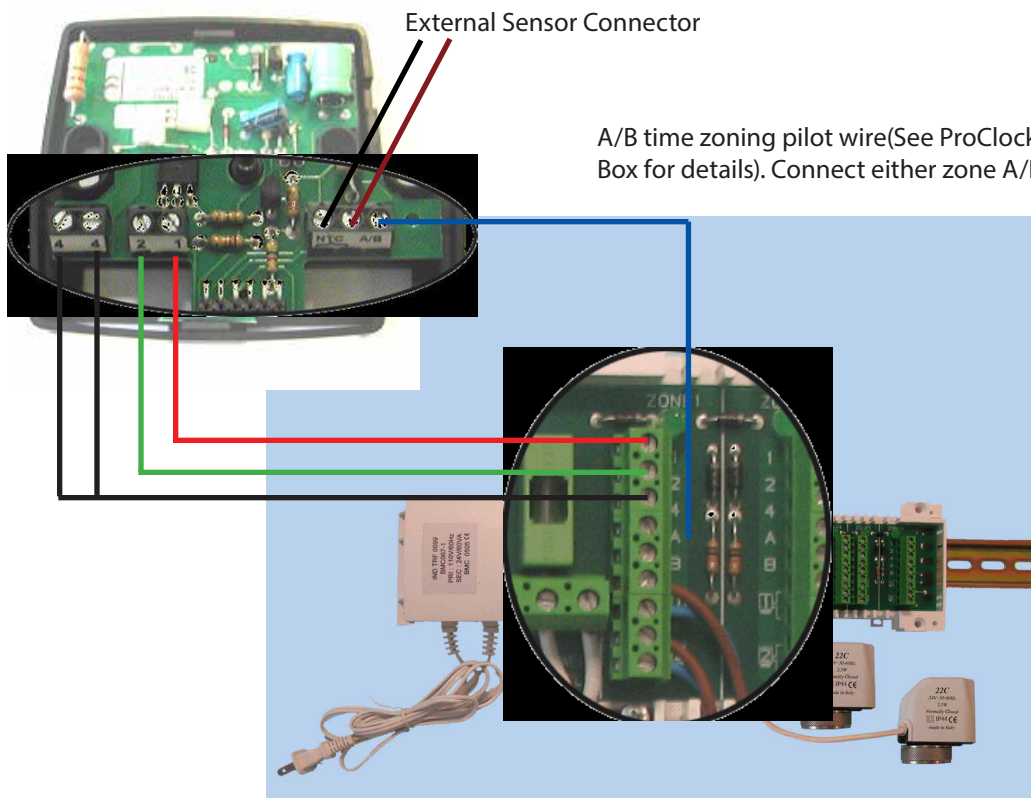


Fig 19 - Pro Basic Wiring

Connecting Pro Digital Thermostats to the ProZone master/slave zone module



### Configuring Pro Series Thermostats for dual sensor applications

Dual sensor thermostats allow to regulate between two separate temperature measurements. For proper adjustment of room and floor temperature it might become necessary to deviate from the pre-configured thermostat settings.

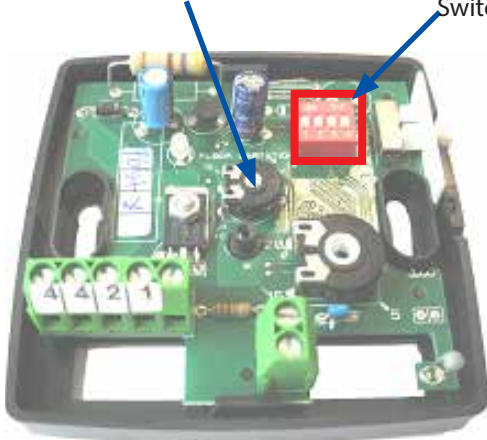
AquaHeat ProBasic and ProDigital Dual Sensor thermostat both are configurable for either only internal, only external sensor or both, in which case the external (floor) sensor is used as a temperature limiter.

### Pro Basic Configuration

Pro Basic Dual Sensor thermostats are configured by dip switches (configuration switch) located on the inside PC board and are best adjusted during the installation of the thermostat. Basic adjustments as the actuator type, regulation mode (static differential/proportional, and the sensor modes).

Floor Sensor Temperature Limitation setting screw

Configuration Switch



#### Configuration Switch Selection Pro Basic

1. Select the actuator type (Choose between 2 - wire and 4 - wire with end switch)
2. Select regulation method preferred
3. Select which sensors are to be used and whether the floor sensor should limit the measurement to the lower or higher temperature

Please see table below for available configurations

Fig 22 - Pro Basic Configuration

Configuration Switch		Switch Position			
State	Function	1	2	3	4
1	Actuator NC	down			
2	Actuator NO	up			
3	Static Differential Regulation		down		
4	Proportional Regulation		up		
5	Internal (Room) Sensor only			down	down
6	External (Floor) Sensor only			down	up
7	Both Sensors - floor lower limit			up	down
8	Both Sensors - floor upper limit			up	up

Table 5 - Pro Basic Configuration Dip Switch

### Pro Digital Configuration

Pro Digital dual sensing thermostats offer a wide variety of user configurable options. For details we refer to the product specification sheet coming with the unit. To configure the ProDigital thermostat for multi sensor applications the setup menu needs to be entered.

1. Press "OK" button for 5+ seconds. The setup menu occurs
2. With the + or - keys navigate to menu J6 - Regulation Options
3. Press OK button again to set or edit the preset value until the choice starts blinking
4. Set the desired value by navigating the + or - buttons

The following values are available

- Air => Regulation with room sensor only (Floor limitations is activated if floor sensor connected)
- Flr => Regulation with Floor (external) sensor only.(Without Floor limitations)
- AF => Regulation with 2 sensors (room & External sensors). (Without Floor limitations)

5. Confirm your selection by pressing the "OK" button
6. Exit the setup menu by navigating with + or - keys to the menu item "end". Pressing OK once more will exit the setup menu.

Note: Please refer to the Menu options table for further menu option parameters.

Menu Option	Value description
J0	°C / °F temperature display selection
J1	"Hot" / "Cold" regulation mode. Select Hot for a Heater system, select Cold for a Cooling system
Cy	Proportional Integral regulation time cycle value in minutes (default: 15 minutes cycle)
bp	Proportional Integral regulation band amplitude value in degrees °C/°F (default: 2.0°C/3.6°F)
J4	"NC" or "NO" Normally closed or normally open actuators selection
J5	Select "PMP" to perform an 1 minute exercise everyday (if installation inactive during a day)
J6	choice of sensor for the regulation : Air : Regulation with room sensor only (Floor limitations is activated if floor sensor connected) Flr : Regulation with Floor (external) sensor only.(Without Floor limitations) AF : Regulation with 2 sensors (room & External sensors). (Without Floor limitations)
J7	"rEG" (Proportional Integral) or "HYs" (0.3°K Hysteresis) regulation type selection
Cp	compensation value in °C/°F (default: 2.0°C/3.6°F) this parameter must be adjusted by a professional
Ao	Air sensor offset adjustment (default: no offset). Display measured Air sensor value
Fo	Floor sensor offset adjustment (default: no offset). Display measured Floor sensor value
FL	Floor temperature LOW limitation (default: 5°C/41°F), effective only if floor sensor present
FH	Floor temperature HIGH limitation (default: 28°C/82°F) , effective only if floor sensor present
Clr	Press OK key during 5s to reset all the CPS LCD parameters to factory defaults
End	Press OK key to exit installation parameter menu and return to normal operation

Table 6 - Pro Digital Configuration Menu

### Installing External Sensors

Pro Series thermostats come with or without external sensor (probe) for measuring the exact slab temperature or floor temperature in addition to the room temperature. When installing a separate sensor it is important to maintain a minimum separation of 18" from parallel run powerlines. When crossing powerlines cross at a 90° angle.



Technical Data	
Cable Length	9 ft
Electr. Resistance	NTC 10K ohm

Warning: If sensor and cable is installed < 18" distance to a power line signal distortions might lead to inaccurate readings.

Fig 24 - ProZone External Sensor

Use only water-sealed sensors in in-slab installations since condensate can collect in the sensor's slab conduit and would otherwise corrode any unprotected sensor. A conduit is needed to install the sensor in concrete slabs. This could be a piece of pex pipe with a closed end cap. The wall side end of the conduit must extend out of the slab.

Caution: Make sure there are no kinks or squeezes in the pipe conduit which would prevent the sensor to reach the end of the conduit.

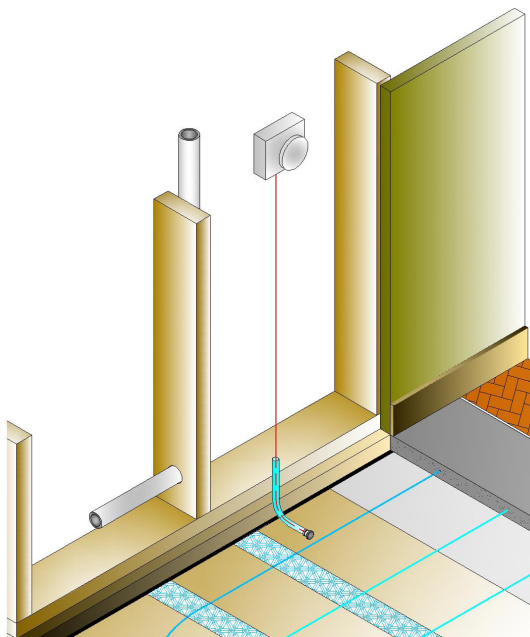


Fig 25 - External Sensor installed in concrete slab

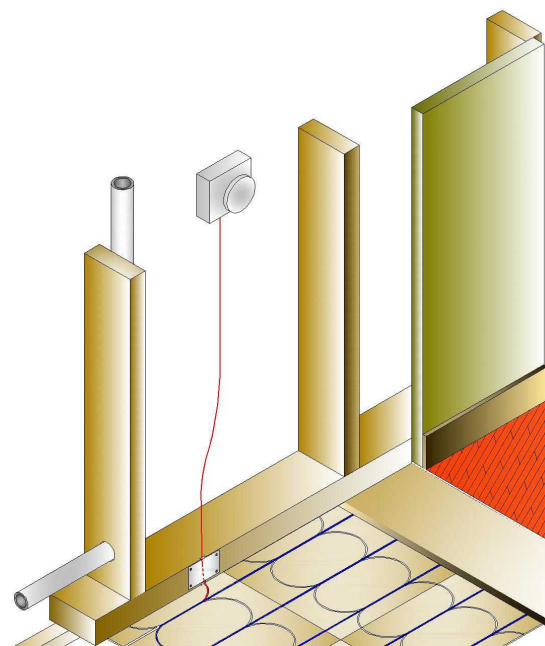


Fig 26 - External Sensor installed with AquaHeat Heat transfer panels



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