



Line Power
Fan Coil Thermostat



Ouick Start Guide

For other language versions, please visit www.salusinc.com

Notices

Please read these instructions carefully **before installing and using** the Line Power Fan Coil Thermostat.



Risk of electrical shock that can lead to severe injury, property damage or death. Disconnect power supply before installation or servicing.

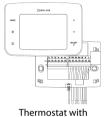
- Follow all national and local electrical codes, ordnances and regulations regarding the installation or replacement of a line power thermostat.
 An authorized, qualified installer may be required.
- **Do not** cover any of the vents on the thermostat.
- **Do not** place the unit in a bathroom or area of excessive moisture.
- Do not allow the unit to get wet. This device serves as a temperature control system only in dry, closed living and office spaces.
- Do not use solvents or aggressive cleaning agents. A dry, soft cloth is recommended.

The manufacturer does not accept responsibility for any damage caused by not following these instructions.

Contact SALUS Technical Support: support@salusinc.com

Let's Get Started

Make sure you have the following items:



Wiring Mount



Wiring Labels



Junction **Box Screws**



Quick Start Guide

Tools:

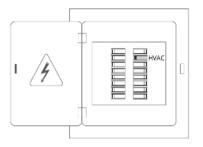
- #1 Phillips or flathead screwdriver
- Small screwdriver for terminals

Optional Tools:

- Smartphone or digital camera to take picture of wiring for later reference
- Pencil

2. Turn Off Power to the Fan Coil System

Turn off the circuit breaker in the breaker panel and/or disconnect the fan coil from the power source.



3. Determine Wiring

Configuration

- Remove the old thermostat from the wall to expose the wiring terminals.
- Take a picture of the wiring for future reference.
- Note the terminals attached to each wire and attach the matching label to the ends of the wires.

Use the following table as reference:

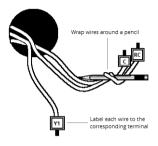
Terminal	Function			
Name	4 pipe system	2 pipe system		
L	Hot side of 120/240 VAC inp	ut		
N	Neutral side of 120/24 VAC in	nput		
WY	Hot water valve output	Pipe valve output		
YA	Chilled water valve output	Auxiliary Heat (A)		
Gl	Fan coil low speed control			
Gm	Fan coil medium speed control			
Gh	Fan coil high speed control			
Ac	Accessory output (relay contact)			
Ac	Accessory output (other side	of relay)		
Тр	Pipe temperature sensor inp	ut		
Tx	External temperature sensor	input		
Ts	Setback contact input			
Tc	Tx/Tp/Ts common			

4. Remove Old Thermostat Terminals

After all wires have been labeled, carefully remove the wiring, including flying leads, and any mounting or back plate from the old thermostat.

Tip: Wrap the wires around a pencil to prevent them from falling into the wall space

Note: If you intend to paint the mounting surface, now is the best time to do so to insure complete wall coverage behind and around the thermostat without the use of a back plate.

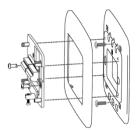


5. Install Wiring Mount

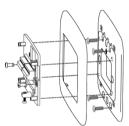
Remove the wiring mount from the packaging, and use the included junction box screws to attach the wiring mount to the junction box, making sure the wires run through the center opening. If alternate mounting holes are required, use a wall plate and latches (sold separately).



Horizontal junction box



Vertical single gang box (wall plate and latches sold separately)



2 gang (4" square) box (wall plate and latches sold separately)

6. Attach Wiring

Connect the labeled wires to their matching lead or screw terminal based on the fan coil configuration as follows:

Configuration	L	N	WY	YA	GI	Gm	Gh	Ac	Ac	Тр	Tx	Ts	Tc*
lead wire color	black	white	orange	yellow	red	blue	brown						
2-pipe Heat Only	√	√	W		√	√	√	0	0		0	0	0
2-pipe Cool Only	√	√	Υ		√	√	√	0	0		0	0	0
2-pipe Heat or Cool - Manual changeover	√	√	W/Y		√	√	√	0	0		0	0	0
2-pipe Heat or Cool - Seasonal changeover	√	√	W/Y		√	√	√	0	0	√	0	0	√
2-pipe Heat or Cool with Auxiliary Heat	√	√	W/Y	Α	√	√	√	0	0	√	0	0	√
4-pipe Heat / Cool, Manual or Auto changeover	√	√	W	Y	√	√	√	0	0		0	0	0

√: Required

O: Optional

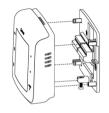
^{*} If using more than one T terminal (Tp,Tx,Ts), it may be necessary to splice for Tc.

7. Attach Thermostat to Wiring Mount

Attach the thermostat to the wiring mount by aligning the connector pins and the plastic retention posts, and pushing the thermostat onto the wiring mount.

Make sure the connector pins are not bent and that the thermostat is fully seated on the wiring mount.

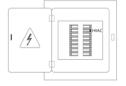
Tighten the housing retention screw on the bottom of the thermostat.



8. Turn On Power to the Fan Coil System

Turn on the circuit breaker at the breaker panel and/or reconnect the power source to power up the fan coil system and thermostat.

The thermostat will automatically detect and adjust for either 120 or 240 VAC on the Line input.



9. Pair Thermostat

After powering up and initializing, the thermostat will display the pairing screen.

Consult the pairing guide for your home automation system to determine how to add the Line Power Fan Coil Thermostat to your system.

After pairing, the device will automatically enter Installer Mode to allow configuration of the device.

To skip the pairing process and enter Installer Mode immediately, press SETTINGS ($^{\bigcirc}$).





10. Configuring the Thermostat

In Installer Mode, the buttons have the following function:

Button	Function
SELECT	Save displayed value for parameter and,
short press	go to next parameter (wrap around at end back to 0)
long press (~2s)	go to previous parameter (wrap at 0 to end of parameters)
∧ or ∨	Up or down selection of value options for parameter
SETTINGS	Exit Installer Mode and go to Home screen

For the purposes of this Quick Start Guide, only the minimum essential parameters are covered. To view the full list of parameters, please consult the User Manual at www.salusinc.com.

Parameter	Name	Values (default in bold)		
P00	Thermostat	0 = Non-Programmable (for home automation systems with schedules)		
	Type	1 = Programmable		
P01	Fan Coil Type	0 = 2 Pipe		
		1 = 4 pipe		

Parameter	Name	Values (default in bold)			
P02	Heat/Cool	For 2 Pipe:	For 4 Pipe:		
	Configuration	0 = Heat Only			
		1 = Cool Only			
		2 = Heat or Cool	2 = Heat or Cool		
		Manual changeover	Manual changeover		
		3 = Heat or Cool	3 = Heat, Cool or Auto		
		Seasonal changeover	changeover		
		(Pipe sensor required)	4 = Auto changeover only		
		4 = Heat or Cool with Auxiliary			
		Heat (Pipe sensor required)			
P03	Pipe Valve	0 = Normally closed			
	Type	1 = Normally open			
P12	External	0 = External sensor			
	Sensor Type	1 = Zigbee remote sensor			
P13	Pipe Sensor	0 = Analog input			
	Type	1 = Normal open, default mode is Heat			
		2 = Normal open, default mode is Cool			
		3 = Normal close, default mode is Heat			
		4 = Normal close, default mode is	Cool		

11. Normal Operation

After exiting Installer Mode, the device will go to the Home Screen with the following button functions.

Button	Function					
MODE	Select heat/cool/auto mode					
FAN	Select fan operating mode					
SETTINGS	Enter/Exit User Settings Mode for the following user accessible settings: • C/F temperature units selection • Internal/External temperature sensor selection • Setback set point setup (if P16 is not Disable) • 12/24 hour time display mode selection • Set Time (if Standalone or Local mode) • Set Month and Date (if Standalone or Local mode) • Set Year (if Standalone or Local mode) • Enter Program Schedule mode (if P0 = Programmable) • Set temperature offset					
∧ or ∨	Home Screen: Enter Set Point Change mode Set Point Change: increase or decrease the set point for the selected heat/cool mode					
SELECT	Home Screen: Select what to display under ambient temperature; time, or set point and humidity. Set Point Change: Toggle state of permanent hold between ON and OFF					

12. Code Functions

The device can perform additional functions required for certain situations. To access the functions, press the MODE, FAN, and SETTINGS buttons simultaneously until the CDdE screen appears (~2 seconds). Enter the code for the desired function from the table below, using the Aybuttons.



Code	Function
49	Enter Installer Mode to set operating parameters.
55	If not part of a network, the device will start the pairing process.
	If already part of a network, the device will confirm the desire to "Unpair" from
	the network.
	If confirmed, the devices will forget the network and start the pairing process.
	If no confirmation within 3 minutes, the device will return to the Home Screen.
86	Restores all parameters to factory default values and reboots. The device will ask
	to confirm the restoration. If no confirmation within 3 minutes, the device will
	return to the Home Screen.

13. FCC and Industry Canada

FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to 1 try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC AND INDUSTRY CANADA

RF Radiation Exposure statement: This equipment complies with FCC and Industry Canada RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the antenna and all persons.

Cet appareil est conforme aux limites d'exposition au rayonnement FR du FCC et d'Industrie Canada pour un environnement non contrôlé. Cet appareil devrait être installé et devrait fonctionner de sorte qu'il se trouve à une distance d'au moins 20 cm entre l'antenne et toute personne.

INDUSTRY CANADA

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement el fon

14. Warranty

SALUS North America, Inc. ("Salus") warrants that for a period of five (5) years ("Warranty Period") from the date of purchase by the consumer ("Customer"), this device, excluding batteries ("Product"), shall be free of defects in materials and workmanship under normal use and service in accordance with all supplied instructions. During the warranty period, Salus shall, at its option, repair or replace any defective Products, at no charge for the device. Any replacement and/or repaired devices are warranted for the remainder of the original Warranty Period or ninety (90) days. whichever is longer.

This warranty does not cover removal or reinstallation costs. This warranty does not apply to any Product (i) which has been modified, repaired, or altered, except by Salus or an authorized Salus representative, (ii) which has not been maintained in accordance with any handling or operating instructions supplied by Salus, or (iii) which has been subjected to unusual physical or electrical stress, misuses, abuse, negligence or accidents.

This warranty is the only express warranty Salus makes for the Product. Any implied warranties, including warranties of merchantability or fitness for a particular purpose, are limited to the Warranty Period or the shortest period allowed by law.

SALUS SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND, INCLUDING ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY OR INDIRECTLY, FROM ANY BREACH OF ANY WARRANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, or limitation on the duration of implied warranties of merchantability or fitness, so these exclusions or limitations may not apply to you.

No oral or written information or advice given by Salus or a Salus- authorized representative shall modify or extend this warranty. If any term is held to be illegal or unenforceable, the legality or enforceability of the remaining terms shall not be affected or impaired.

Customer's sole and exclusive remedy under this limited warranty is product repair or replacement as provided herein. If a Product under warranty is defective, the Customer may:

- contact the party ("Seller") from which the Customer purchased the Product to obtain an equivalent replacement product after the Seller has determined that the
 Product is defective and the Customer is eligible for a replacement, or
- contact Salus Service at <u>supportiosalusin.com</u>, to determine whether the device qualifies for a replacement. If a replacement is warranted and is shipped prior
 to the return of the device under warranty, a credit card is required and a hold may be placed on the Customer's credit card for the value of the replacement until
 the returned device is verified as cliaible for replacement, in which case, the Customer's credit card will not be charged.

This warranty gives you specific legal rights, and you may also have other rights that vary from jurisdiction to jurisdiction. If you have any questions reqarding this warranty, please write Salus at:

SALUS North America, Inc. 850 Main Street Redwood City, CA 94063