

Installation, Operation and Maintenance

W561 WiFi Thermostat



Works with the
Watts® Home Mobile App



Compatible With

- 1-stage heating
- Supports included floor sensor for radiant floor heating applications

⚠ WARNING



Please read carefully before proceeding with installation. Your failure to follow any attached instructions or operating parameters may lead to the product's failure.
Keep this Manual for future reference.



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Important Safety Information

It is your responsibility to ensure that this thermostat is safely installed according to all applicable codes and standards. Watts® is not responsible for damages resulting from improper installation and/or maintenance.



This is a safety-alert symbol. The safety alert symbol is shown alone or used with a signal word (DANGER, WARNING, or CAUTION), a pictorial and/or a safety message to identify hazards.

When you see this symbol alone or with a signal word on your equipment or in this Manual, be alert to the potential for death or serious personal injury.



This pictorial alerts you to electricity, electrocution, and shock hazards.

WARNING

This symbol identifies hazards which, if not avoided, could result in death or serious injury.

CAUTION

This symbol identifies hazards which, if not avoided, could result in minor or moderate injury.

NOTICE

This symbol identifies practices, actions, or failure to act which could result in property damage or damage to the equipment.

WARNING



Read Manual and all product labels BEFORE using the equipment. Do not use unless you know the safe and proper operation of this equipment. Keep this Manual available for easy access by all users. Replacement Manuals are available at Watts.com

WARNING

- It is the installer's responsibility to ensure that this thermostat is safely installed according to all applicable codes and standards.
- Improper installation and operation of this thermostat could result in damage to the equipment and possibly even personal injury or death.
- This thermostat is not intended for use as a primary limit control. Other controls that are intended and certified as safety limits must be placed into the control circuit.

NOTICE

Do not attempt to service the thermostat. There are no user serviceable parts inside the thermostat. Attempting to do so voids warranty.

Installation

Preparation

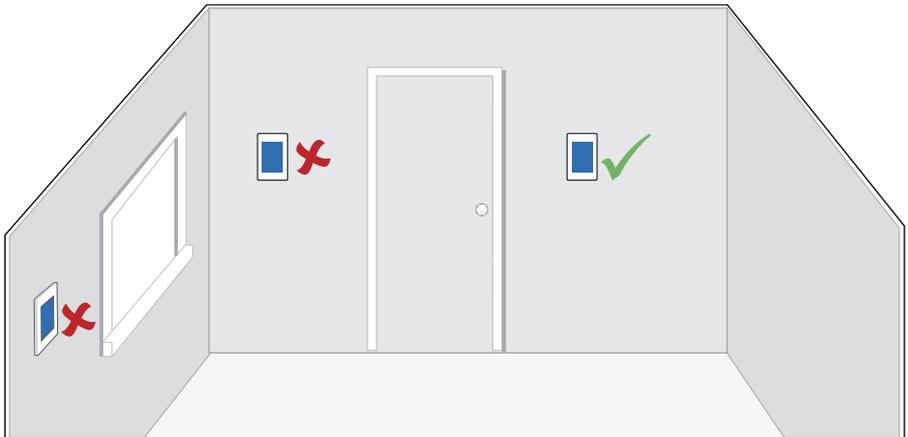
Tools Required

- Watts or jeweler screwdriver
- Phillips head screwdriver
- Wire stripper
- Drill (for wall anchor)
- $\frac{3}{16}$ " drill bit (for wall anchor)

Installation Location

Materials Required

- 18 AWG LVT Solid Wire (Low Voltage Connections)

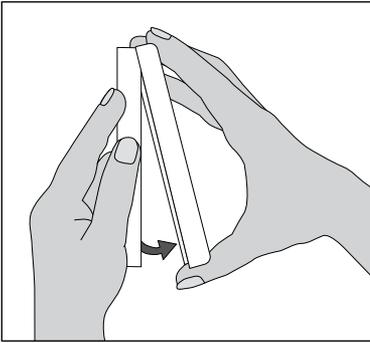


NOTICE

Consider the following:

- Interior Wall.
- Keep dry. Avoid potential leakage onto the control.
- Relative Humidity less than 90%. Non-condensing environment.
- No exposure to extreme temperatures beyond 32-122°F (0-50°C).
- No draft, direct sun, or other cause for inaccurate temperature readings.
- Away from equipment, appliances, or other sources of electrical interference.
- Easy access for wiring, viewing, and adjusting the display screen.
- Approximately 5 feet (1.5 m) off the finished floor.
- The maximum length of wire is 500 feet (150 m).
- Strip wire to $\frac{3}{8}$ " (10 mm) for all terminal connections.
- Use standard 8 conductor, 18 AWG wire.

Removing the Thermostat Base



While holding the base section in one hand, pull the lower half of the display front towards you to pivot it away from the base.

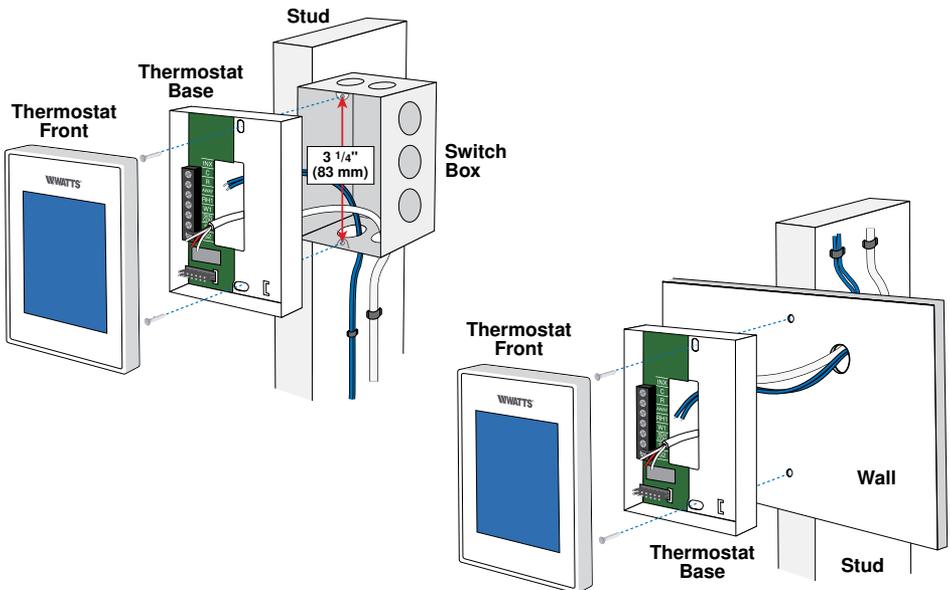
Mounting the Thermostat

⚠ WARNING



To prevent the risk of personal injury and/or death, make sure power is not applied to the thermostat until it is fully installed and ready for final testing. All work must be done with power to the circuit being worked on turned off.

Please be aware local codes may require this thermostat to be installed or connected by an electrician.



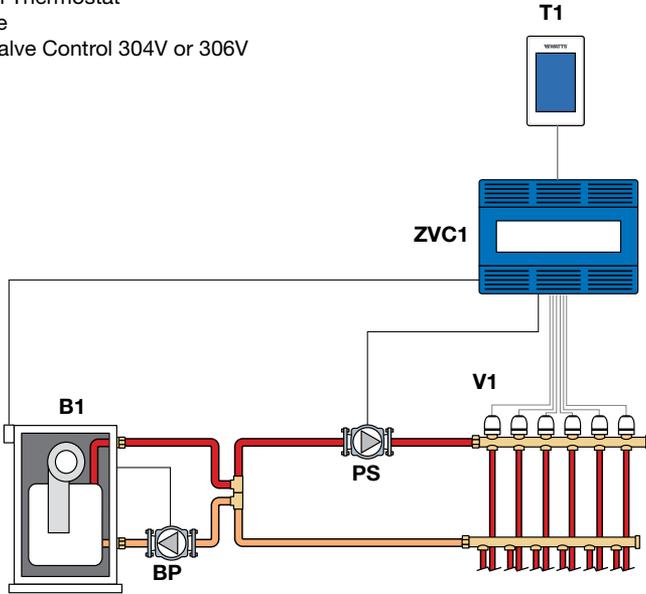
Application W561-1

The W561 WiFi Thermostat operates a radiant floor heating system. The thermostat uses the built-in air temperature sensor.

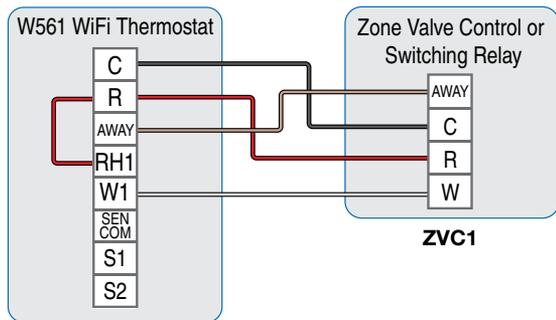
Mechanical

Legend

- B1 = Boiler
- BP = Boiler Pump
- PS = System Pump
- T1 = W561 WiFi Thermostat
- V1 = Zone Valve
- ZVC1 = Zone Valve Control 304V or 306V



Electrical



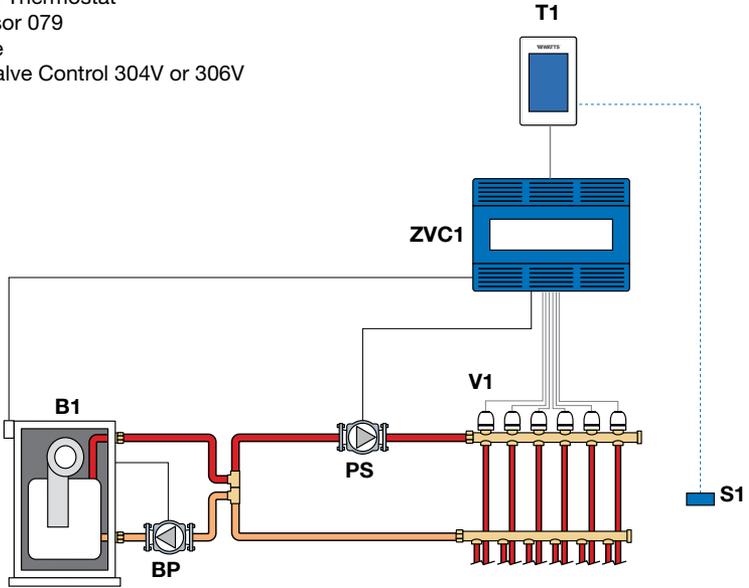
Application W561-2

The W561 WiFi Thermostat operates a radiant floor heating system based upon the floor temperature sensor, included. The built-in air sensor is disabled.

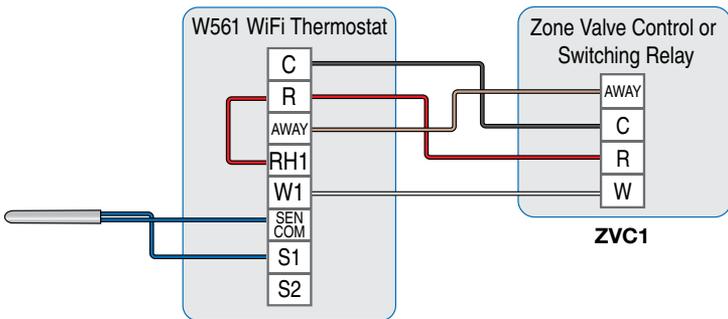
Mechanical

Legend

- B1 = Boiler
- BP = Boiler Pump
- PS = System Pump
- T1 = W561 WiFi Thermostat
- S1 = Floor Sensor 079
- V1 = Zone Valve
- ZVC1 = Zone Valve Control 304V or 306V



Electrical



Application W561-3

The W561 WiFi Thermostat operates a radiant floor heating system. The thermostat uses both air and floor temperature sensors. The air temperature sensor can be either built-in and/or external.

Mechanical

Legend

B1 = Boiler

BP = Boiler Pump

PS = System Pump

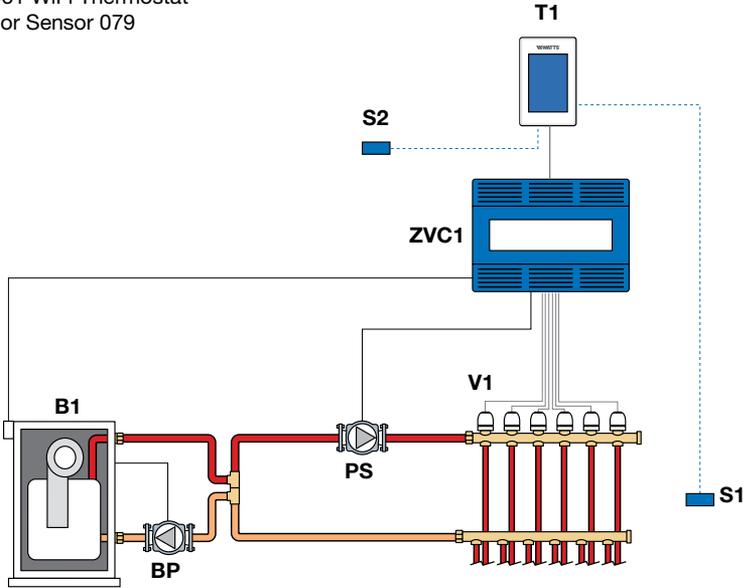
T1 = W561 WiFi Thermostat

S1 = Floor Sensor 079

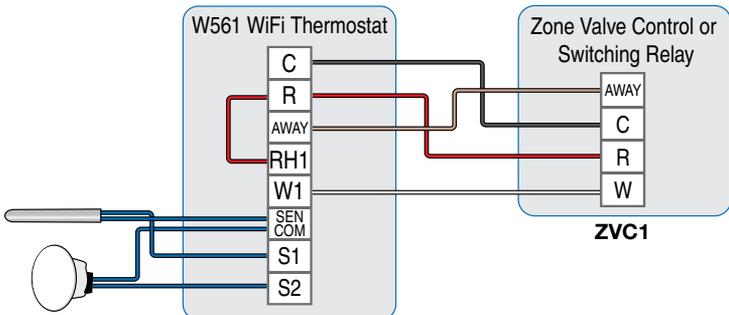
S2 = Optional Indoor Sensor 084

V1 = Zone Valve

ZVC1 = Zone Valve Control 304V or 306V



Electrical



Application W561-4

The W561 WiFi Thermostat operates a baseboard/radiator using an air temperature sensor. The air temperature sensor can be either built-in and/or external.

Mechanical

Legend

B1 = Boiler

BP = Boiler Pump

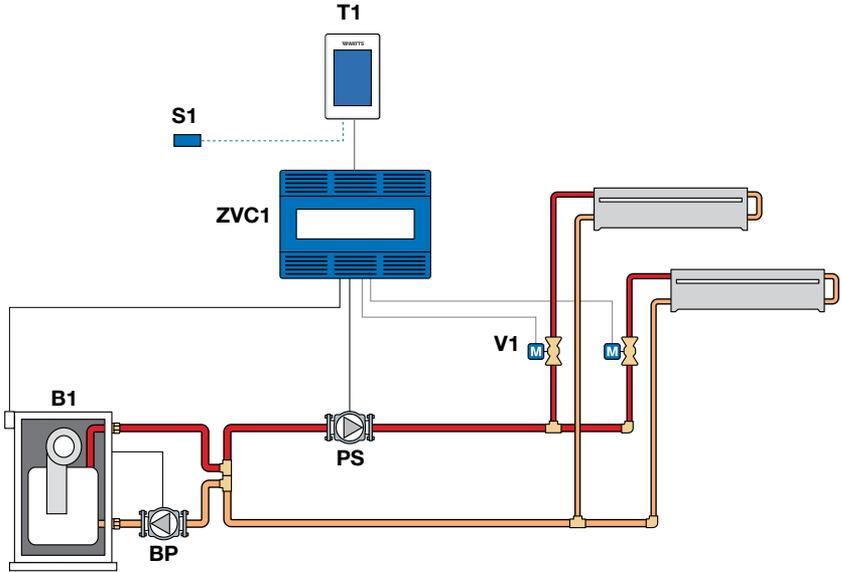
PS = System Pump

T1 = W561 WiFi Thermostat

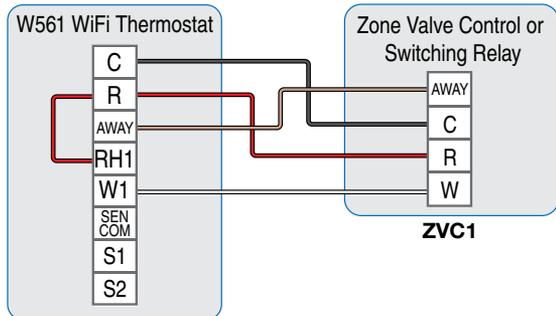
S1 = Optional Indoor Sensor 084

V1 = Zone Valve

ZVC1 = Zone Valve Control 304V or 306V



Electrical



Sequence of Operation

Heating Operation

The heating setpoint can be set from 40 to 95°F (4.5 to 35°C). The Heat On symbol is shown on the display when the thermostat is heating. Heating for freeze protection is provided whenever the air or floor temperature falls below 40°F (4.5°C), regardless of operating mode.

Regular Heating

W1 relay is on when the air temperature falls 1.5°F (1°C) below the Heat To setting. When the temperature reaches the Heat To setting, the relay turns off.

Radiant Floor Heating

When Radiant Floor Heating is selected in the setup menu, the W1 relay operates using Pulse Width Modulation. This improves comfort for radiant systems with high mass floors.

- 100% on time at Heat To setting -1.5°F
- 50% on time at Heat To setting
- 0% on time at Heat To setting + 1.5°F

Room Sensor and Averaging

The thermostat can measure room temperature between -46 to 212°F (-43 to 100°C). The room temperature can be measured using a combination of the built-in and auxiliary sensors.

- Built-in room sensor only
- Built-in room sensor with auxiliary room sensor(s) (temperature is averaged)
- Auxiliary room sensor only

Floor Sensor for Radiant Floor Heating

The thermostat can measure floor temperature between -46 to 212°F (-43 to 100°C). If a floor sensor is connected, floor minimum and maximum settings are available. The floor heating setpoint is adjustable from 40 to 100°F (4.5 to 38.0°C).

For a combination of air and floor temperature control, leave the internal air sensor on in the setup menu. A floor minimum can be used to prevent a fast drop in temperature caused by receding solar exposure. This operation is recommended for areas heated by afternoon sun through large windows. When the sun sets, it can take a long time for the floors to get warm again. This may cause the room to cool off too much in the early evening. A floor minimum setting can help with this condition by maintaining a floor minimum temperature. Keep in mind the floor minimum temperature will override the air temperature, and if set too high, may overheat the room.

A floor maximum is recommended for rooms with hardwood floors. Setting floor minimum and maximum temperatures is a way of enhancing the comfort of the living space while protecting floor coverings.

If there are more than one floor temperature sensors, the temperature is averaged.

Warm Weather Shut Down (WWSD)

The heating system can automatically shut off based upon the outdoor temperature and the WWSD setting. This provides a convenient way to shut off radiant floor heating.

User Interface

After 60 seconds of inactivity, the thermostat home screen displays only the time and the temperature.

WATTS

Go to schedule — [Calendar icon] 10:30 AM — Current time

Outdoor 60° [Weather icon]

Swipe to view: ● ○ ○

- Weather
- Outdoor temperature
- Floor temperature
- Heat To setting

Floor 70° — Current temperature

Early Start

Heat On — Equipment operation (Heat On)

Change operating mode — [Mode Heat] [▲] [▼] [Settings icon] — Go to settings

Mode

Heat

Off

Save Cancel

Touch ▲ or ▼ to adjust temperature

Temperature Adjustment

Heat To

70

Hold Until 5:00 PM

Save to Schedule

Save to Schedule

Save Cancel

'Save to schedule' applies the new temperature to the current schedule event.

Hold overrides the programmed schedule until the time shown

MENU SELECTION

AWAY SCHEDULE

DISPLAY TIME

WIFI SETUP

←

WIFI: Connected

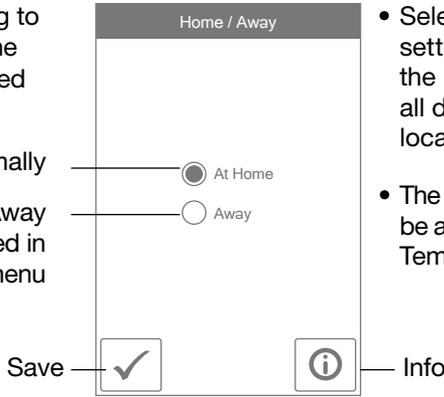
User Settings

Away

Use the Away setting to save energy when the building is unoccupied

Operates normally

Operates using the Away temperature selected in the Setup menu



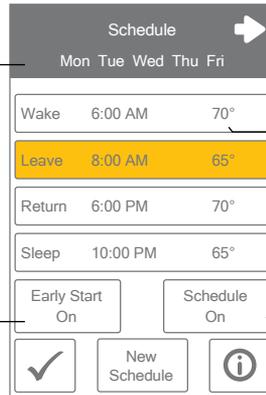
- Selecting the Away setting on a thermostat or the mobile app will affect all devices linked to that location through the app.

- The Away temperature can be adjusted in the Setup / Temps menu.

Schedule

Current group of program days.

Early Start anticipates the time required to heat a room and starts early.



Go to the next group of program days.

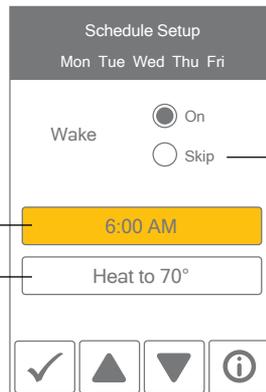
Heating temperature

Set to On to follow the schedule. Set to Off to use the same temperature all of the time.

Creates a new schedule.

Set schedule start time

Set heating temperature



Select skip if you don't want a temperature change.

Info

Display

Setting	Range	Default
TEMPERATURE UNITS Select °F or °C.	°F or °C	°F
ENERGY USE View the number of hours the heating or cooling has operated either daily or monthly.	0 to 24 (daily) 0 to 744 (monthly)	0 hours

Daily Usage	
Today	0 hrs
Yesterday	0 hrs
Tue	0 hrs
Mon	0 hrs
Sun	0 hrs
Sat	0 hrs
Fri	0 hrs

Monthly Usage

View each day's run time for heating.

Toggle between Daily and Monthly Usage.

Setting	Range	Default
BRIGHTNESS ACTIVE Select the brightness when touching the screen.	30 to 100%	100%
BRIGHTNESS INACTIVE Select the brightness when not in use.	Off, 30 to 100%	50%
BACKGROUND Select the background color.	Light, Blue, Night, Latte, Espresso	Blue
LANGUAGE Select the language.	English, Español, Français	English
SCREEN CLEAN Locks screen for 10 seconds to allow cleaning.	N/A	N/A
INACTIVE TIME DISPLAY Select if the time is visible when the display is inactive.	Off or On	On
INACTIVE OUTDOOR DISPLAY Select if the outdoor temperature is visible when the display is inactive.	Off or On	Off

Time

TIME & DATE

Aug 25 2016

1 30 PM

▲ ▲ ▲

▼ ▼ ▼

✓

OPTIONS

i

When connected to the Internet, the time can be set automatically.

The time and date can be manually set by highlighting a field and then using the ▲ or ▼ buttons.

Choose from the time options listed below.

Setting	Range	Default
TIME FORMAT Select the time format.	12 or 24 hour	12 hour
TIME SOURCE If Internet is available, the time source can be either automatically or manually set.	Automatic, Manual	Auto
TIME ZONE Select the local time zone.	Hawaii, Alaska, Pacific, Mountain, Central, Eastern, Atlantic, Newfoundland	Eastern
DAYLIGHT SAVING TIME Select the brightness when not in use.	Off, On	On

NOTICE

Incorrectly setting the time and date manually may prevent the thermostat from communicating to the mobile app. Automatic time source is recommended when using an Internet connection.

WiFi

NOTICE

Before using the WiFi features of this product, you must accept the Terms of Use, as amended from time to time and available at [Watts.com/terms-of-use](https://www.watts.com/terms-of-use). If you do not accept these terms, this product can still be used without WiFi features.

The thermostat includes a step by step tutorial to setup the WiFi connection.

Tutorial

Before first using WiFi features of this product, you must accept the Terms of Use available at <https://www.watts.com/terms-of-use> by pressing AGREE below.

If you do not accept these terms, this product can still be used without WiFi features.

DISAGREE AGREE

Step 1

Agree to Terms of Use

WiFi

Off
 On

NEXT

Step 2

Turn on WiFi

NETWORK SSID

Select a network from the list:

Your House ▼

← CONNECT

Step 3

Enter wireless network name.

Enter Password

A	B	C	D	E	F
G	H	I	J	K	L
M	N	O	P	Q	R
S	T	U	V	W	X
Y	Z		Shft	A/1	Del

← CONNECT

Step 4

Enter WiFi password.

ZIP/Postal

1	2	3	4	5	6
7	8	9	0	-	/
:	:	()	\$	&
@	"	.	,	?	!
'	\		Shft	A/1	Del

OK

Step 5

Enter ZIP or postal code. This determines your location for weather information.

Time Source

Automatic
 Manual

NEXT

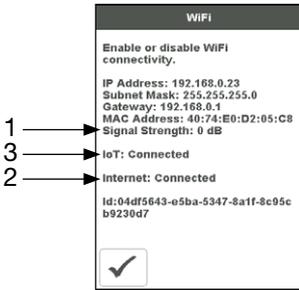
Step 6

Select if the time is set automatically from the Internet or manually.

WiFi and Connectivity Troubleshooting

WiFi Connection Status

Press  > WiFi > WiFi:On >  to view the thermostat connection status.



(1) WiFi Signal Strength

- The WiFi signal must measure between 0 and -69 dB to have a reliable connection to the Watts® cloud.
- A WiFi extender is recommended to be installed if the WiFi signal is between -70 to -100 dB.

(2) Internet Connected

- The WiFi information screen will show Internet Connected when the thermostat is connected to the router and there is a connection to the Internet.

(3) IoT Connected

- The thermostat connection status will show IoT Connected when connected to the Watts Cloud and the thermostat is ready to be registered to the app.

If IoT is not connected, please follow these steps:

Check Password

- Double check that you are using the correct WiFi network and password.
- The password is limited to 32 characters, and can include upper and lower case letters, numbers, special characters and spaces. A space counts as a character.
- The thermostat supports WPA2-Personal password security.

Power Off and On

- Power the thermostat off. Next, power the router off, wait 10 seconds, then power

on and wait for the Internet status to be on. Then power the thermostat on.

Check Router & Firewall

Consult the router manual or Internet Service Provider (ISP) for assistance with router setup with these configurations:

- The router must provide a 2.4 GHz signal. The thermostat is not compatible with 5 GHz networks.
- The router is using WPA2-Personal security.
- The router has DHCP enabled with enough available addresses for all Internet devices.
- The router firewall is not blocking the outbound UDP or TCP ports: 53, 123, 443, 8883.
- The router firewall is not blocking connections to *.azure-devices.net
- The router firewall is not blocking the thermostat based upon a MAC filter list.

Network Troubleshooting

- tekmar provides free access to a network troubleshooting tool called **RouteThis Helps**.
- Download the app from the App Store or Google Play Store to your mobile device.
- Enter code “TEKM” and click “Network scan”. The app will provide further instructions.

Create a WiFi Hotspot

- If you are unable to connect to the WiFi network, try creating a WiFi Hotspot on your mobile device to bypass the router.
- Apple® iOS WiFi hotspot instructions <https://support.apple.com/en-us/HT204023>
- Android™** WiFi hotspot instructions <https://support.google.com/android/answer/9059108>
- If the thermostat displays IoT connected when using the WiFi Hotspot, please contact your Internet Service Provider (ISP) or IT professional for assistance with the router.

* Apple and App Store are trademarks of Apple Inc.

** Google, Android and Google Play are trademarks of Google LLC.

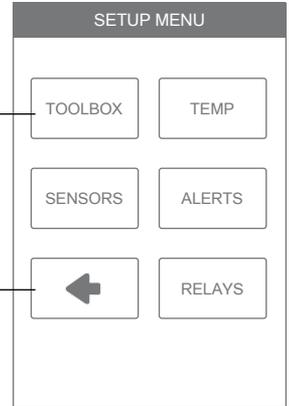
Installer Settings

Setup

The Setup menu contains five sub-menus that determine how the thermostat operates.

The Access Level setting in the Toolbox menu determines how many settings are available to the user.

Press back to return to the main Settings menu.



Setup - Toolbox

Setting	Range	Default
ERROR Displays any error messages.	N/A	N/A
ACCESS LEVEL Select between user and installer access levels. User access level restricts access in the Setup Menu.	User, Installer	Installer
STATUS The current status of warm weather shut down, cold weather shut down and each of the relays.	WWSD, W1	N/A
SOFTWARE VERSION Display the software version.	J1249A	N/A
LOAD DEFAULTS All settings are returned to factory defaults.	Yes, No	No
CALIBRATE TOUCHSCREEN Recalibrate the screen after loading factory defaults.	N/A	N/A

Setup - Temp

Setting	Range	Default
<i>Screen Page 1</i>		
FLOOR MIN - WAKE Select the floor temperature while in the wake schedule. Applies when there is both a floor and an air sensor.	Off, 40 to 95°F Off, 4.5 to 35.0°C	Off
FLOOR MIN - LEAVE Select the floor temperature while in the leave schedule. Applies when there is both a floor and an air sensor.	Off, 40 to 95°F Off, 4.5 to 35.0°C	Off
FLOOR MIN - RETURN Select the floor temperature while in the return schedule. Applies when there is both a floor and an air sensor.	Off, 40 to 95°F Off, 4.5 to 35.0°C	Off
FLOOR MIN - SLEEP Select the floor temperature while in the sleep schedule. Applies when there is both a floor and an air sensor.	Off, 40 to 95°F Off, 4.5 to 35.0°C	Off
FLOOR MIN - AWAY Select the floor temperature while in away. Applies when there is both a floor and an air sensor.	Off, 40 to 95°F Off, 4.5 to 35.0°C	Off
FLOOR MAX Select the maximum floor temperature. This protects the floor covering from over heating. Applies when there is a floor sensor.	Off, 40 to 100°F Off, 4.5 to 38.0°C	Off
<i>Screen Page 2</i>		
HEAT TO AWAY Select the heating temperature when away.	Off, 40 to 95°F Off, 4.5 to 35.0°C	62°F (16.5°C)
HEAT TO MIN LIMIT Select the minimum heating temperature limit.	Off, 40 to 95°F Off, 4.5 to 35.0°C	Off
HEAT TO MAX LIMIT Select the maximum heating temperature limit.	Off, 40 to 95°F Off, 4.5 to 35.0°C	Off
WARM WEATHER SHUT DOWN Select the outdoor temperature at which the heating is shut off.	Off, 40 to 95°F Off, 4.5 to 35.0°C	Off

Setup - Sensors

Setting	Range	Default
SENSOR 1 Select the type of sensor connected to S1 and Com wiring terminals.	Off, Room, Floor	Off
SENSOR 2 Select the type of sensor connected to S2 and Com wiring terminals.	Off, Room, Floor, Outdoor	Off
INTERNAL ROOM SENSOR Select if the internal room temperature sensor is on or off. Only available when Sensor 1 or 2 is set to read a room or floor sensor.	Off, On	On
ROOM OFFSET Select if the internal room temperature sensor is on or off. Only available when Sensor 1 or 2 is set to read a room or floor sensor.	Off, -5 to +5°F -3.0 to 3.0°C	Off
FLOOR OFFSET Manual offset correction of the floor temperature measurement.	Off, -5 to +5°F -3.0 to 3.0°C	Off

Setup - Alerts

Setting	Range	Default
ROOM HOT WARNING Sends an email notification if the room exceeds this temperature.	Off, 40 to 100°F Off, 4.5 to 38.0°C	Off
ROOM COLD WARNING Sends an email notification if the room falls below this temperature.	Off, 40 to 100°F Off, 4.5 to 38.0°C	Off

Setup - Relays

Setting	Range	Default
RADIANT FLOOR HEATING Select if the first stage W1 heats a radiant floor.	No, Yes	No

Error Messages

When an error occurs an email notification will be sent to the registered Watts Home mobile or account owner.

Description
<p>INTERNET UNAVAILABLE</p> <p>The thermostat has a WiFi connection to the router but is unable to communicate to the Internet. Steps to clear the error include: 1) power off and on the router, 2) power off and on the thermostat.</p>
<p>MEMORY ERROR</p> <p>The thermostat memory settings are corrupted. To clear, load the factory defaults in the Toolbox menu. The thermostat will not operate any heating equipment while this error message is present.</p>
<p>INTERNAL ROOM SENSOR FAULT</p> <p>Due to an open or short circuit, the thermostat is unable to read the internal room temperature sensor. If sensor 1 or 2 is set to room the thermostat continues to operate, otherwise operation stops.</p> <p>The error cannot be field repaired. Contact your Watts sales representative for warranty or repair procedures.</p>
<p>SENSOR 1 FAULT</p> <p>Due to an open or short circuit, the thermostat is unable to read the sensor wired to S1 and Com. The thermostat stops normal operation if sensor 1 is the only active room or floor sensor or if a floor maximum temperature has been set.</p> <p>Check the auxiliary sensor wire for short circuits according to the sensor installation manual. It may be necessary to replace the auxiliary sensor. Once the error has been corrected, the error message automatically clears.</p>
<p>SENSOR 2 FAULT</p> <p>Due to an open or short circuit, the thermostat is unable to read the sensor wired to S2 and Com. The thermostat stops normal operation if sensor 2 is the only active room or floor sensor or if a floor maximum temperature has been set.</p> <p>Check the auxiliary sensor wire for short circuits according to the sensor installation manual. It may be necessary to replace the auxiliary sensor. Once the error has been corrected, the error message automatically clears.</p>
<p>ROOM HOT WARNING</p> <p>The room temperature is above the Room Hot Warning setting in the Alerts menu. The warning will automatically clear once the room temperature falls below the setting.</p>
<p>ROOM COLD WARNING</p> <p>The room temperature is below the Room Cold Warning setting in the Alerts menu. The warning will automatically clear once the room temperature rises above the setting.</p>

Technical Data

W561 WiFi Thermostat *One Stage Heat*

Literature	Submittal, Installation and Operating Manual, User Manual, Job Record, Watts Home Manual
Control	Microprocessor control. This is not a safety (limit) control.
Packaged weight	0.6 lb. (270 g)
Dimensions	4 ⁵ / ₈ " H x 3" W x 1 ⁵ / ₁₆ " D (118 x 76 x 24 mm)
Enclosure	White PVC plastic, NEMA Type 1
Approvals	Meets Class B: ICES & FCC Part 15
Ambient conditions	Indoor use only, 32 to 122°F (0 to 50°C), RH ≤90% non-condensing
Power supply	15 to 30 V (ac/dc), 2 VA standby, Class 2
Relays	30V(ac/dc), 2 A, Class 2 circuits
Sensor	NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892
– Included	079
– Optional	tekmar type # 070, 072, 073, 076, 077, 084
Communications	WiFi 802.11n, 2.4 GHz, WPA2 encryption
Mobile app	Apple iOS 12 or higher, Android 10 or higher

Hydronic System Electronic Controls and Thermostats Limited Warranty

Watts Regulator Co. (the Company) warrants its hydronic system electronic controls and thermostats (the Product) to be free from defects in materials and workmanship under normal usage for a period of one year from the documented date of installation of the Product. In the event of defects within the warranty period, the Company will replace the Product without charge. This remedy is the sole and exclusive remedy for breach of warranty. This warranty is transferable to subsequent owners.

Under this Limited Warranty, the Company will provide the following:

In order to make a claim, you must:

- (a) Provide the Company with sufficient details relating to the nature of the defect, the installation, the history of operation, and any repairs that may have been made.
- (b) At the Company's discretion and at the owner's expense, ship the Product to the Company or the Company's local representative or distributor.
- (c) Provide proof that the Product was installed in accordance with the applicable Product Installation Manual and any special written design or installation guidelines by the Company for this project.
- (d) Provide proof that the Product was installed in accordance with the National Electrical Code (NEC) or the Canadian Electrical Code (CEC), and all applicable local building and electrical codes.
- (e) Provide a retail sales receipt or proof of purchase.

The following are not covered by this Limited Warranty:

- (a) Any incidental or consequential damage, including inconvenience, loss of time or loss of income.
- (b) Any labor or materials required to repair or replace the Product that are not authorized in writing by the Company.
- (c) Any labor or materials required to remove, repair or replace materials other than the Products.
- (d) Any freight or delivery costs related to the Product or any related electrical products.

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