

Technical support

Thank you for choosing our product. If you have questions, please contact us:
expert@ferguson.pl.

Care and Maintenance

Thermostat WiFi Ferguson does not require any service fees to operate. It does not require any special care. It requires a reliable Network Connection to operate. It also requires a reliable Smartphone. The device should be used for internal installations. the thermostat is not suitable for installation in outdoor conditions.

Safety and measures

We request that you read the instruction manual and recommendations set forward therein.

- In order to avoid an electric shock, never open the housing. Damage to the warranty seal shall void the warranty.
- Do not attempt to disassemble and drop from high place.
- Keep away from water and other liquids.
- After prolonged use, it is normal that the unit temperature will rise.
- The best working temperature range is: -5 – 60 °C.
- Please use the accessories provided by the manufacturer.

Downloadable software

Ferguson has taken every effort to provide users with software updates in order to ensure that the parameters of the device are up to date. Ferguson reserves itself the right to amend, change or modify the software used in the device as it shall choose and without prior notification. The latest version of the software is available on the website <http://www.ferguson-digital.eu>

About the instruction manual

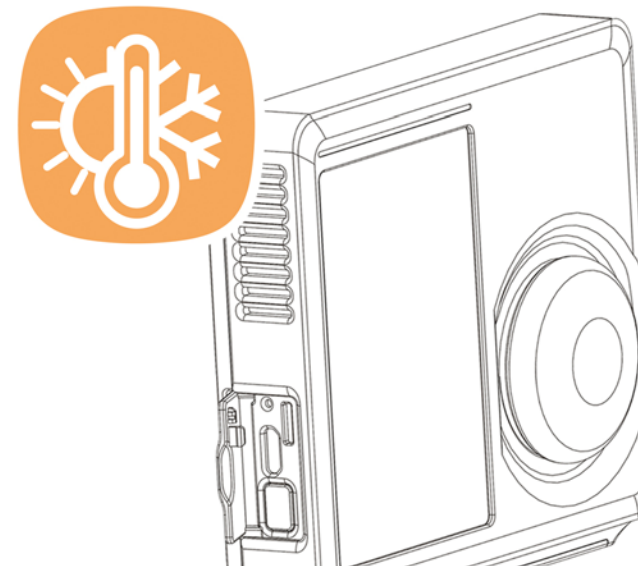
Ferguson Sp. z o.o. has made every effort to provide the most current information about its products. Ferguson Sp. z o.o. does not grant any guarantee as to the contents of the present instruction manual and disclaims any implied guarantees concerning market value or suitability for specific purposes. The information contained herein is an instruction intended to enable the correct usage and maintenance of the receiver. Ferguson Sp. z o.o. reserves itself the right to introduce amendments, changes or translations of the instruction manual without prior notification thereof. For this reason, we recommend you regularly visit our website in order to obtain the latest information.

Hereby Ferguson Sp. z o.o., declares that the device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EC. You can find the Declaration of Conformity on www.deklaracje.ferguson.pl. This product has been designed, tested and manufactured according the European R&TTE directive 2014/53/UE.



Installation & User Manual

For 9~24V 1,5A Thermostat Wiring



Warning: Failure to follow and read all instructions before installing or operating this device may cause personal injury and/or property damage.

In the Box

- Wi-Fi Thermostat
- Two screws and anchors
- Flathead screwdriver
- Wire labels
- Jumper wire
- User manual
- Registration card



Some features require an internet connection and a user account. Features, specifications, and appearance are subject to change without notice.

Check Compatibility First

For conventional (gas/oil/electric) and heat-pump systems
-> **1-Heat & 1-Cool** -> **Heat Only** -> **Cool Only**
* C & R-Wire required to power the thermostat.

Getting started

The FS1TH thermostat is designed to work on most 9~24V low voltage heating and cooling systems such as gas and oil furnaces, heat pumps, and single-stage systems

Professional installation recommended for:

- Dual fuel systems (heat pump with furnace)
- Separate humidifiers and dehumidifiers

Turn Power Off

Please turn off the furnace's main power at the switchbox before beginning the installation process.



Warning: Failure to turn off power may result in electrical shock and/or system damage.

1 Remove the Old Thermostat

Before removing the wires from the thermostat or wall plate, take a photo of all wires for reference, then label each wire according to the terminal codes.

Disconnect the wires from the old thermostat one by one. **Do not let wires fall back into the wall.** Remember, the power to your HVAC system must be turned off.

After labeling the wires, we recommend securing them to an object such as a pen or clip to prevent them from falling back into the wall.



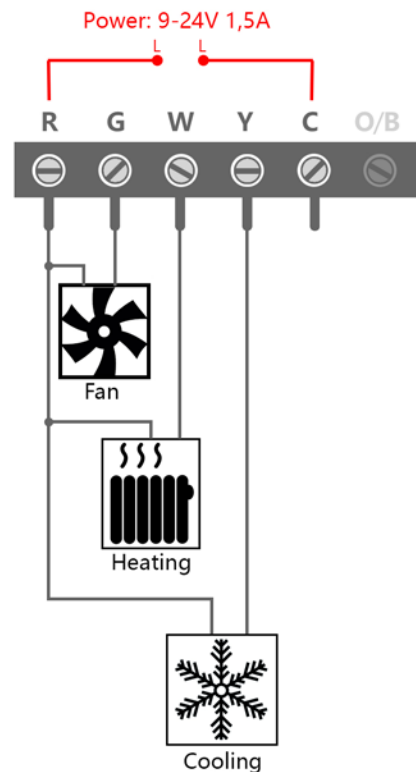
2 Connect the New Wall Plate

Warning: Use caution when securing and routing wires to prevent possible shortage to adjacent terminals.

Below is a description of the terminals:

R - Power **G** - Fan **W** - Heating
Y - Cooling **C** - Power **O/B** - Reserve

FS1TH thermostat control dry contact devices, it means without use of the voltage. Short out contacts of thermostat will give signal to the input of controlled device (such as furnace). All thermostat contacts are NO (Normally Open). Normally open contacts represents contacts that would perform a connection upon receipt of a signal. It means thermostat can control devices which contacts must be open during normal work conditions (retired). Short out of input will turn it on.



Technical specification

Lp.	Specyfication	
1	Screen Size	3,5" LCD
2	Screen	Touch Screen
3	Battery	No battery
4	Power Source	9 - 24V / 1,5A (AC or DC)
5	Night Light	Programmable Warm White LED
6	Temperature Setting Range	5°C ~ 37°C
7	Temperature Accuracy	± 1,5°C (2 Years)
8	Operating Temperature	0°C ~ 43°C
9	Operating Humidity	<90%
10	WiFi Chipset	Qualcomm QCA4004X
11	WiFi Standard	IEEE 802.11B/G/N (2.4GHz)
12	Systems	Heat
		Cool
		Fan
13	Weight	Gross: 420g
		Net: 170g
14	Dimension	Package: 215 x 130 x 45 mm
		Product: 98H x 110W x 25D mm

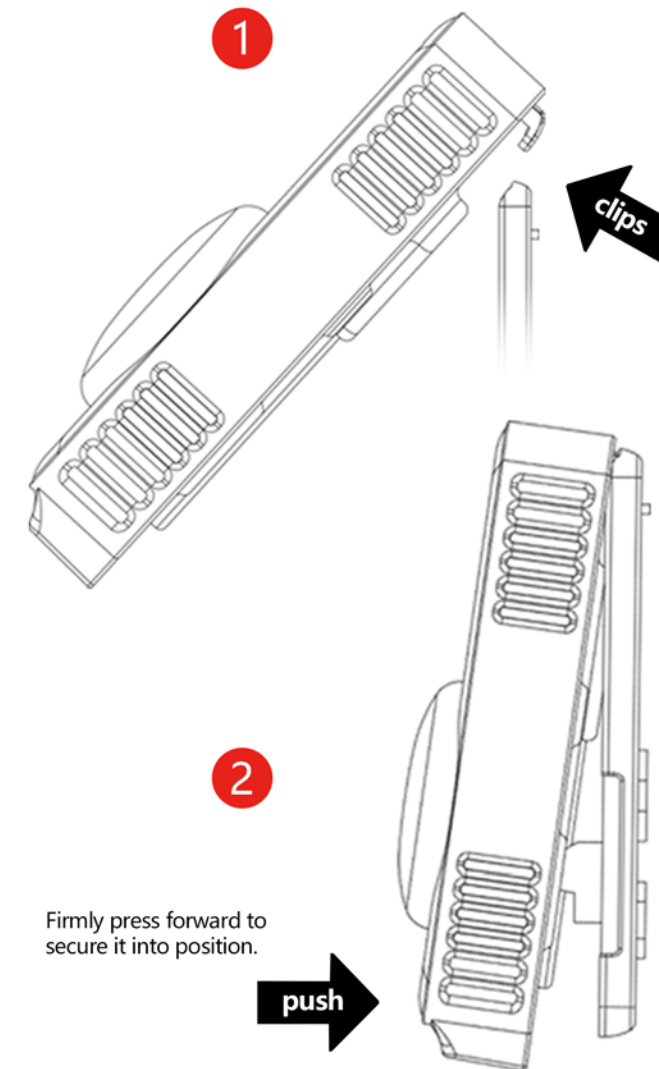
3 Mount the New Wall Plate

Use the enclosed screws and anchors to mount the new wall plate. In most cases, you can utilize the same mounting position of your old thermostat. Be sure to check the alignment of your wall plate pre and post installation of the thermostat unit.



4 Attach FS1TH to the Wall

First align the two clips on the back of the FS1TH into the corresponding slots on the top of the wall plate.



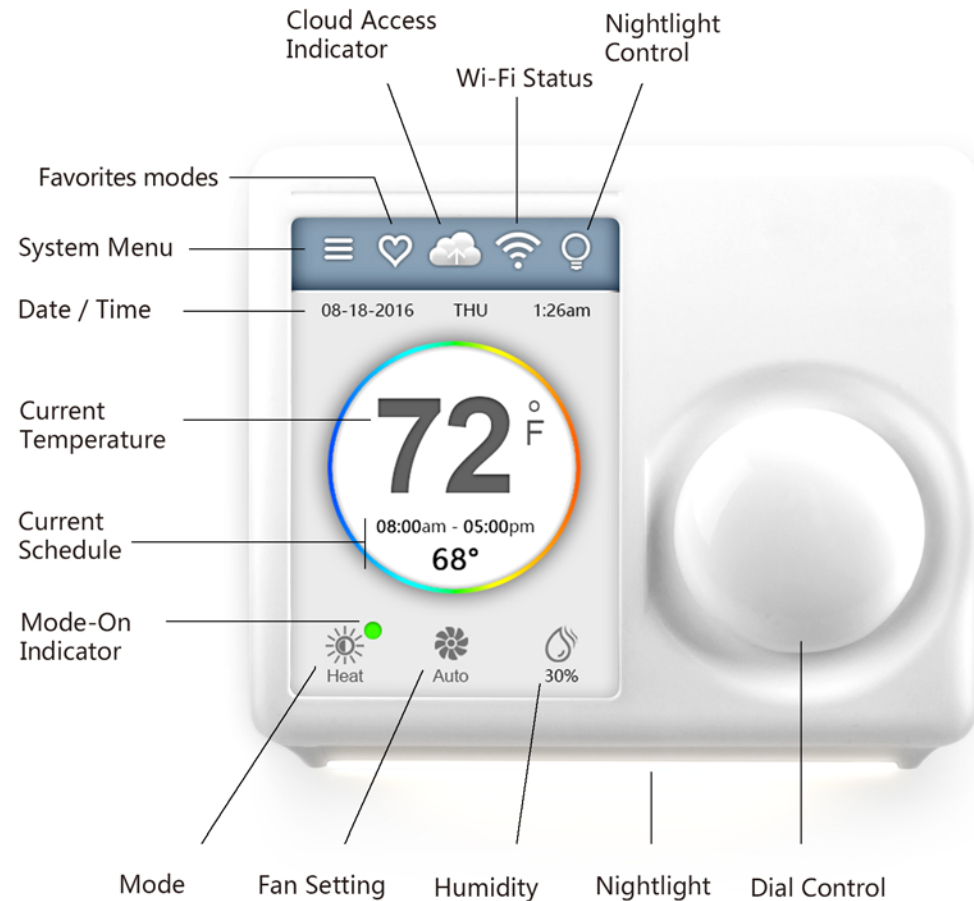
5 Power On and Enjoy!

Ensure the C-wire is properly connected to the furnace and thermostat. Properly secure and lock the furnace door into place. Switch the power back on for the heating/cooling system at the main switch box.

If you have done everything correctly, your thermostat should power on and prompt you to start the setup. If you are having trouble, please refer to our help guide for additional support.

Thank you for choosing Ferguson SmartHome. Enjoy the savings and comfort of owning one of our smart thermostats!

Main Screen



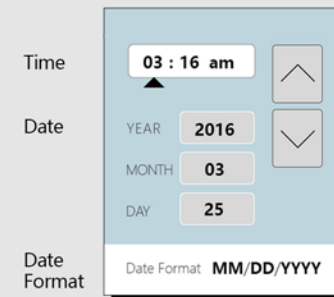
Initialization

For a quick and easy way to begin using your new smart thermostat, the device will automatically direct you to the Initialization Setup process once it's turned on for the first time.

- MENU ACCESS**
- Initialization
 - > Main Menu
 - > Activation
 - > Initialization

1. Date, Time

ON DEVICE: Though there is no restriction for any date and time you set as current, please enter your location's current date and time to avoid any confusion; once the device is registered or linked to a user account, the date and time on the device will automatically update to the current time associated with the user account.

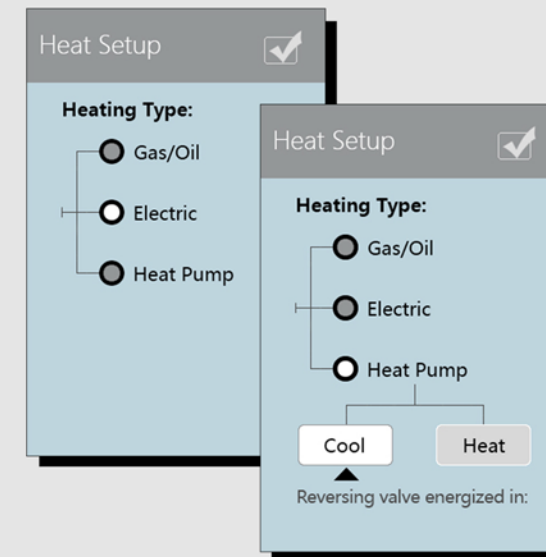


APP or WEBPAGE: The date and time for the device as well as the user account will automatically update by selecting the time zone for the device.

2. Heating Type

Select your home's heating type from the options available: **Gas/Oil, Electric, or Heat Pump**

Heat Pump system?
You must also select Cool or Heat for **the reversing valve to be energized in.**

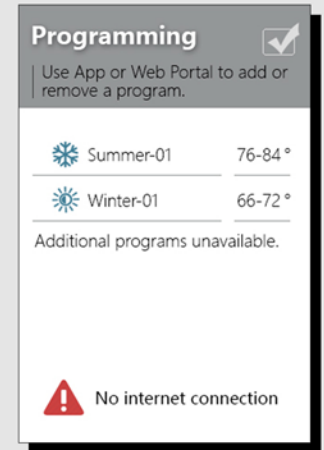


Please check your heating and cooling system manual or consult with a professional HVAC technician if you do not know which option to select.

This thermostat doesn't support Fan-Coil or multi-stage heating/cooling systems.

3. Mode

The thermostat comes with two default programs (**Summer-01** and **Winter-01**) for your convenience; select the one that fits your current needs. More programs can always be added using the App or Web Page.



4. Wi-Fi Setup

You must have a proper Wi-Fi connection in order to access smart features such as App remote access, weather forecast and more. Please follow on-screen instructions to complete the Wi-Fi setup. More information on Wi-Fi connections can be found on the next page.

After a successful connection, the message that the device has not been registered by any user will be shown. You can now add the device to a user account after downloading the App and setting up an account.

MENU ACCESS

Date & Time
Main Menu -> Preference -> Date & Time

Heating Type
Main Menu -> Programming -> Heating Setup

Mode
Main Menu -> Programming -> Programs -> Go

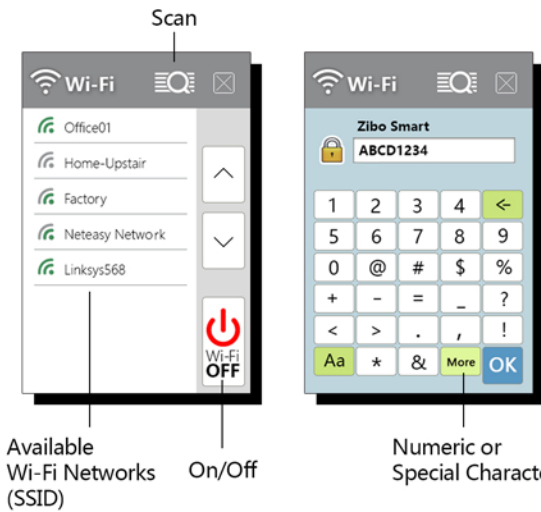
Wi-Fi Setup
Main Menu -> Connection -> Wi-Fi

Wi-Fi Setup

Wi-Fi Connection



Tap the Wi-Fi icon to enter the Wi-Fi setup screen, then tap the Scan icon to generate available Wi-Fi networks. Follow on-screen instructions to complete the Wi-Fi setup.



The password is limited to 17 characters in length. If no password is required, press OK to continue.

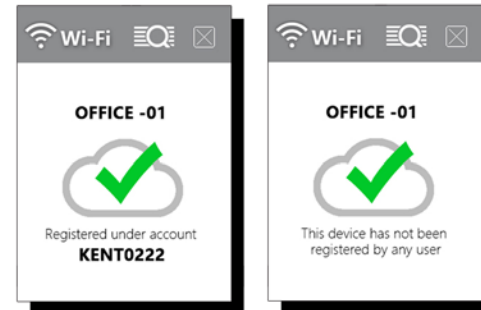
The following may cause a failed connection to the device:



- 1) Wi-Fi signal is too weak or 5G Wi-Fi network;
- 2) SSID contains space or non-ASCII characters;
- 3) Double check your password and try again;
- 4) Wi-Fi is okay but your internet is unavailable;
- 5) Requires additional webpage authentication.

If no password is required, press OK to continue.

User Account for the device



After a successful connection, an account ID will appear for the network the device has been added to.

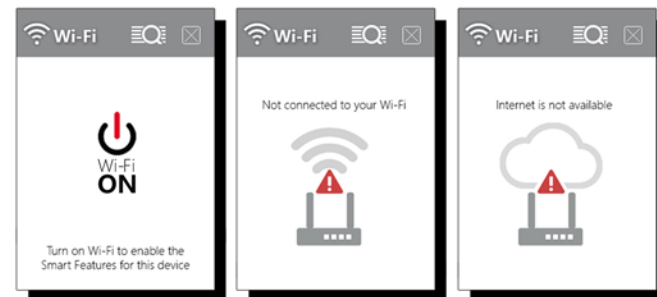
For an unregistered device, it will display the message that the device needs to be registered.

Follow instructions on the next page to add the device to your account after downloading the App and setting up an account.

Auto Reconnect

If your device loses connection with your wireless network, it will automatically attempt to reconnect after five minutes. If that fails, it will make a new attempt every 15 minutes for the next 24 hours. Any manual operation of the thermostat will stop automatic connection attempts.

Wi-Fi can be manually turned off or on. Turning off your Wi-Fi will also disable the internet connection and all smart features, including App access to the device.



Members of a family need to share an account in order to gain access to the thermostat.

App Setup

Congratulations! You are now ready to use the thermostat. Now set up your App to enjoy exciting smart features.

Step 1: Download

There are two ways to download App for your smart device:

- 1) Search **Ferguson Thermostat** in the App Store or Google Play Store,
- 2) Use your smart device to scan below the QR code for download;



Step 2: Create a User Account

After installing the App onto your smart phone or touch pad, create a user account. The user account can also be created through the home page on our website.



Step 3: Add Device to your Account



Log in to your account: tap "Add Device" on the device list screen, then simply follow on-screen instructions in the App or Webpage to complete this task. You will be asked to enter the MAC-ID and the Temporary Verification Code.

Wi-Fi Status Screen

- MENU ACCESS**
- > Main Menu
 - > Wi-Fi Connection
 - > Registration Info.

MAC-ID and Verification Code



Once the device is connected to the internet, you'll be able to read the **Temporary Verification Code (TVC)** and **MAC ID** from the Wi-Fi Status screen.

Tap the TVC code to generate a new one when the previous code expires.

The MAC ID is a unique network ID for this device; this helps to identify your device over the internet.

The Temporary Verification Code (TVC) is a 4-digit code randomly generated each time you enter this screen. It expires after 90 seconds, upon which a new one will be needed.

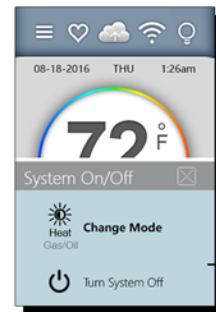


During technical support, the TVC also functions as the verification of "the user currently in possession of the device".

Scan the QR code on the screen for your convenience

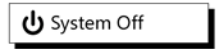
Mode Setup

System Modes



Tap the system mode icon on the home screen to enter Mode Setup, then tap **Program** or go to **Main Menu -> Programming -> Programs**

Please note that your device is always "running a program" and the current operation mode is part of that program. Thus, to change the current mode will also update the mode setting in the current program.



You can opt to turn the System Off to shut down all HVAC operations including fan operation.



The mode selection is for the current program (Winter-01) as a whole. You can't assign different modes within a program.

Tap "Edit" to enter the Programming screen (detailed instructions shown on the next page).

Tap "Go" to enter a list of available programs on your account from the Cloud. From there, you can switch to a different program.

Programming

Temporary Adjustment

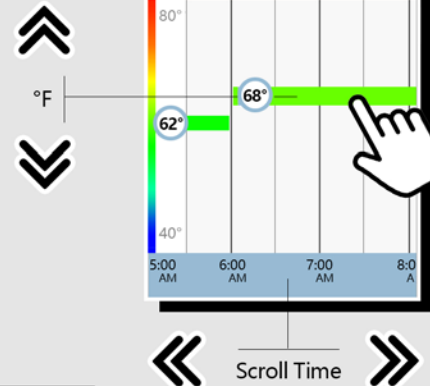
You can override the current program by tapping the Tower to adjust the temperature. A permanent override will ensue if you select Hold; otherwise it will be temporary, meaning that the override expires when the next scheduled program begins.



Programming with the App

From the main menu in the App, select programming:

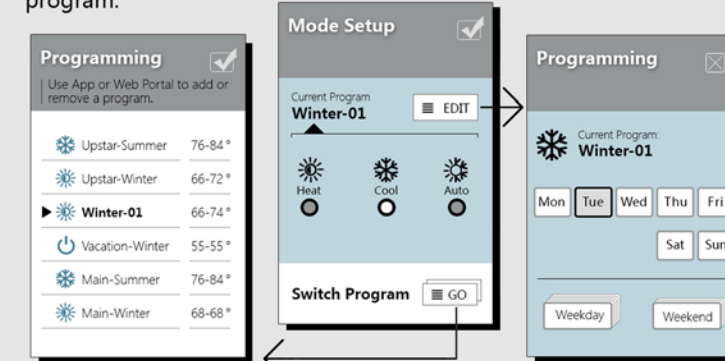
- 1) Tap a day of the week;
- 2) Scroll left and right to the column you want to change;
- 3) Simply drag the color bar Up and Down to change the temperature;
- 4) To create a new setpoint, tap on a time column, then move the rest of the color bar section up and down;
- 5) To delete a setpoint, merge the color bar with the one before or after.



Programming on the Thermostat

Home Screen -> Mode -> Change Mode

Tap "EDIT" or "GO" to change the program setting or select another program.



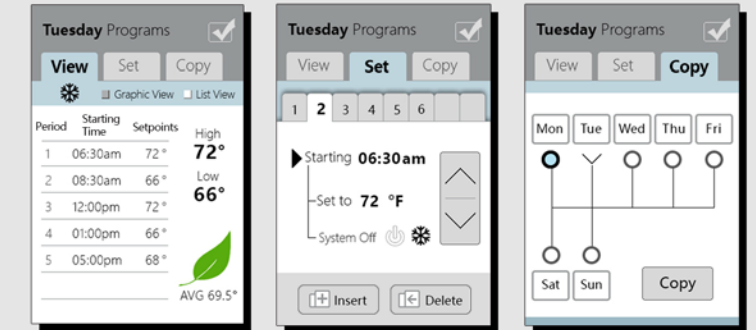
Program List:

There are only two default programs available for selection when the device is offline. Please follow instructions on the App or Webpage to create new programs or to delete an existing one.

VIEW: View the program in either Graphic or List View.

SET: Set up specific setpoints (temperature and time).

COPY: Copy the setpoints to other days of the week.



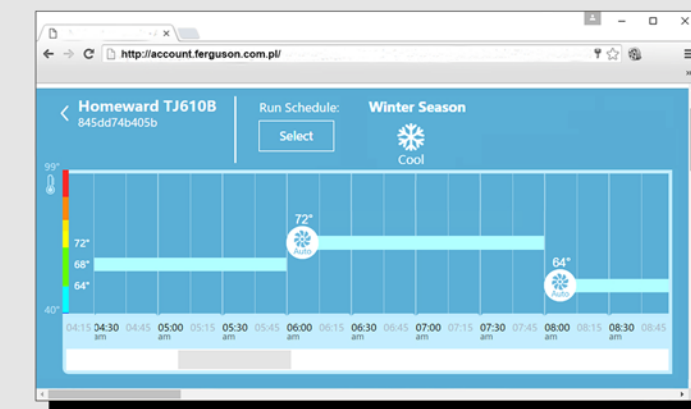
Programming Steps:

- STEP 1:** Select a **period** (total of 8 available per day) to change.
- STEP 2:** Set **Starting Time** increments by 15-minute intervals.
- STEP 3:** Select desired **temperature** or System Off for the period.

INSERT Inserts a new period before the current one.

DELETE Deletes the current period, merging the time with the next period.

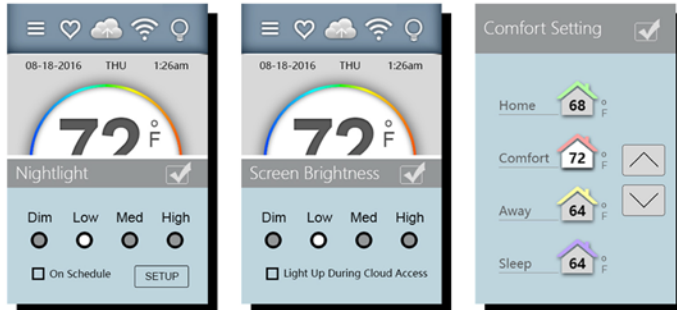
Webpage Programming



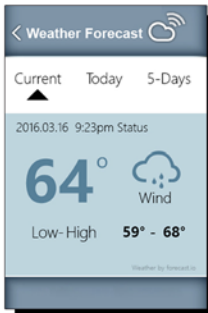
Log in to your account on the Webpage, select Programming from the user menu:

- 1) Select a program, then tap a day;
- 2) Scroll left and right to the column you want to change;
- 3) Simply drag the color bar Up and Down to change the temperature;
- 4) To create a new setpoint, tap on a time column, then move the rest of the color bar up and down;
- 5) To delete a setpoint, merge the color bar with the one before or after.

Additional Features



- Nightlight** Nightlight can be programmed to turn on and off on a fixed daily schedule.
- Screen** There are 4 levels of screen brightness.
- Favorite** Favorite allows you to choose from four adjustable presets for your convenience. Tap the heart icon on the home screen to enter the favorite screen.

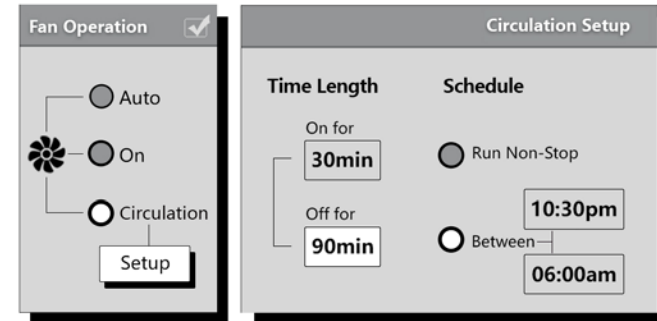


Weather Forecast

The weather forecast is based on the physical location of the thermostat.

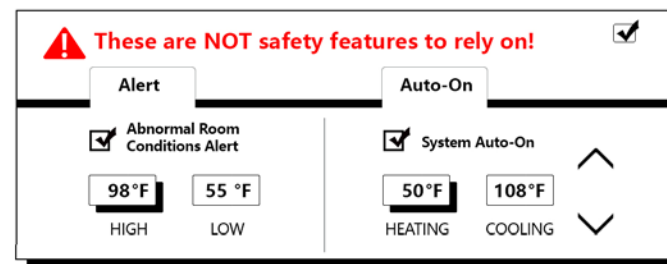
When you use the App to add the device to your account, the location will automatically be assigned. You can also assign or change the location after you log in to your account on the App or webpage.

Fan Operation



- Auto** Fan will follow heating and cooling operations.
- On** Fan runs non-stop for 24 hours.
- Circulation** Fan runs on and off regularly in addition to heating and cooling operations.
By selecting this option, you also need to define the operation time length and schedule for the circulation.

Temperature Alerts and Auto-On



- Alert** Send alert message when room temperature is out of the range between high and low.
- Auto-On** Turn system on automatically when the room reaches these setpoints while the system is off.
Messages will be sent to your account and can be viewed on the device, App and Webpage.

Activation

Activation provides direct access to many common features; it is also the entry point to advanced features for the device. Activation is designed for professionals who want to utilize advanced features for better accessibility.

- AI** Account Information
Information about the user for whom device is registered
- HT** Heating Setup
Set up heating type and valve for heat pump system
- IS** Initialization Setup
Step by step guide to set up thermostat for first time
- SM** System Message
System generated notices and alerts
- PM** Parameter Modifier
Advanced settings for system key parameters
- SC** Sensor Calibration
To calibrate or correct the device temperature reading
- SI** System Information
Display hardware and software info for the device
- SL** System Lock/Unlock
Lock the thermostat to prevent on-device operation
- SU** System Update
Manually update system software
- VC** Verification Code
Display a 4-digit temp. code for verification purposes



Advanced Features

