Manuals+

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Honeywell Home

Honeywell Home N100 Series Non-Programmable Thermostat

Package Includes

- FocusPRO N100 Series Thermostat
- UWP™ Wall Plate
- Decorative Cover Plate with J-Box Adapter
- Screws and Anchors
- 2 AA Batteries
- Thermostat Literature

Compatibility

TH1110U4000 models are compatible with 24 VAC, single-stage heating and cooling systems including:

- Heat pumps without auxiliary heat
- Gas/oil/electric forced air
- Single-stage cooling
- Radiant Hydronic heat
- Hot water coil
- 750 MV

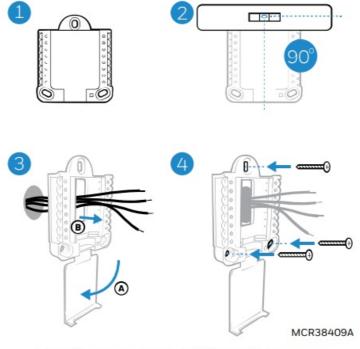TH1320U4002 models are compatible with most 24 VAC heating and cooling systems including:

- Heat pumps with 1 or 2 compressor stages and auxiliary heat
- Dual fuel

- 1 or 2 stage Gas/oil/electric forced air
- 1 or 2 stage cooling
- Radiant Hydronic Heat
- Hot water coil
- 750 MV
- S terminals for C7089U1006 wired outdoor sensor (used for Aux Heat lockout or balance point on heat pump systems.

UWP Wall Plate Installation

If the cover plate is used, the UWP snaps on the cover plate as shown here.

1. Before starting, turn the power off at the breaker box or switch. Open the package to find the UWP. See Figure 1. 2
2. Position the UWP on wall. Level and mark hole positions. See Figure 2.
3. Using a 3/16″ bit, drill holes at marked positions and then lightly tap the supplied wall anchors into the wall using a hammer.
4. Pull the door open and insert the wires through wiring hole of the UWP. See Figure 3.
5. Place the UWP over the wall anchors. Insert and tighten mounting screws supplied with the UWP. Do not overtighten. Tighten until the UWP no longer moves. Close the door. See Figure 4.
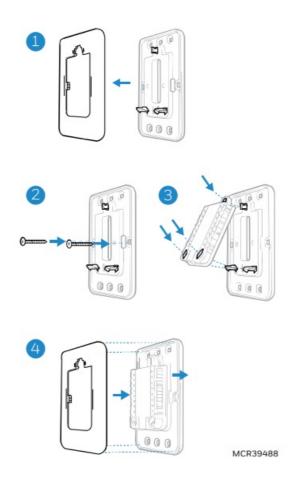
MCR38409A
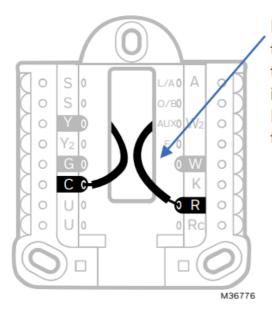
Use 3x supplied #6 1-1/2" screws

Optional Cover Plate Installation

If the Optional Cover Plate is not required, see UWP Wall Plate Installation. Use the Optional Cover Plate when you need to cover a paint gap from the old thermostat.

1. Separate the Cover Plate from Mounting Plate (Figure 1).
2. Mount the Mounting Plate on to the wall or J-box using any of the 8 screw holes. Insert and tighten mounting screws supplied with Cover Plate Kit. Do not overtighten. See Figure 2. Make sure the Mounting Plate is level.
3. Attach the UWP by hanging it on the top hook of the Mounting Plate and then snapping the bottom of the UWP in place. See Figure 3.
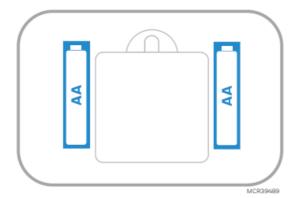4. Snap the Cover Plate onto the Mounting Plate. See Figure 4.

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Power options

Insert **R** and **C** wires into designated terminals for primary AC power. (C terminal is **optional** if batteries are installed but is **recommended**). Remove wires by pressing down on the terminal tabs.

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Thermostats using Y and G wires

If there is no C wire from the previous thermostat or no extra wire in the bundle to the thermostat, you may use the THP9045A C-wire adapter (sold separately).

Insert AA batteries for primary or backup power

For more information on the THP9045A C-wire adapter, go to:

https://customer.resideo.com/resources/Techlit/TechLitDocuments/33-00000s/33-00618.pdf

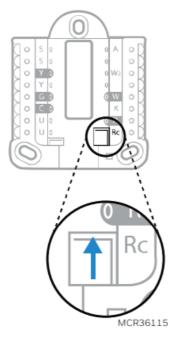## Setting Slider Tabs

Set R Slider Tab

Use built-in jumper (R Slider Tab) to differentiate between one or two transformer systems.

- If there is only one R wire, and it is connected to the R, Rc, or RH terminal, set the slider to the up position (1 wire).
- If there is one wire connected to the R terminal and one wire connected to the Rc

terminal, set the slider to the down position (2 wires).

Slider Tabs for U terminals should be left in place for FocusPRO N100 models.

UWP Wall Plate

R/Rc slider tab
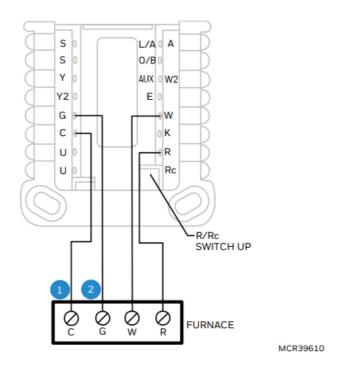
Wiring terminal designations

S	C7089U1006 wired outdoor sensor (TH1320U4002 only)	L/A – A	Heat Pump fault input	
S		O/B	Changeover valve	
Y	Compressor contactor (stage 1)	AUX -W2	Auxiliary heat Heat (stage 2) (TH1320U4002 only)	

Y2	Compressor contactor (stage 2) (TH1320U4002 only)	**E**	Emergency Heat (TH1320U4002 only)
G	Fan	**W**	Heat (stage 1)
C	24VAC common. For 2-transformer systems, use Common wire from cooling transformer.	**K**	To **THP9045A C-Wire adapter** if needed
U	Not used on these models	**R**	24VAC power from heating transformer*
U		**Rc**	24VAC power from cooling transformer*

* Terminal can be jumped using Slider Tab. See **Setting Slider Tabs**.

S   L/A A
S   O/B
Y   AUX W2
Y2   E
G   W
C   K
U   R
U   Rc

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The most commonly used terminals are shaded in the illustration above.

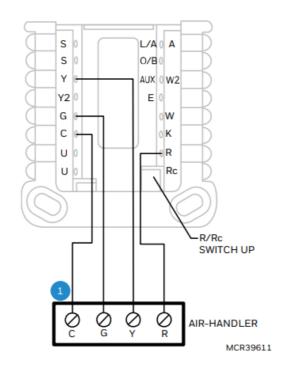## Wiring Diagrams

- **Heat Only**: Gas or Oil Furnace
- **Compatible models**: All N100

MCR39610

1. COMMON OPTIONAL
2. G USED FOR INDEPENDENT FAN CONTROL ONLY. (MOST HEAT ONLY, GAS OR OIL FORCED AIR SYSTEMS DO NOT USE A FAN [G] WIRE)

Cool Only

Compatible models: All N100

MCR39611
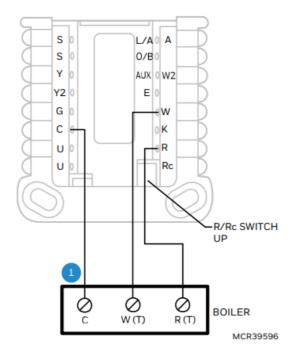
1. COMMON OPTIONAL

Hot Water Boiler, Heat Only

Compatible models: All N100

BOILER

MCR39596
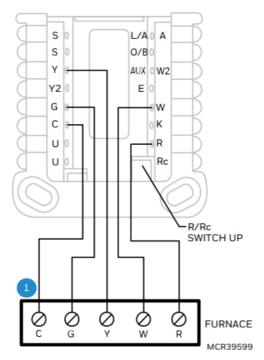
1. COMMON OPTIONAL

1H/1C: Gas Furnace

Compatible models: All N100

FURNACE

MCR39599

1. COMMON OPTIONAL.
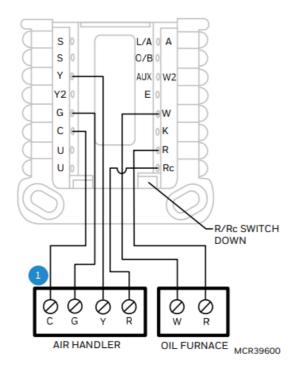
Transformer System, 1H/1C: Oil Furnace with Air Conditioning

Compatible models: All N100

S
S
Y
Y2
G
C
U
U

L/A   A
O/B
AUX   W2
E
W
K
R
Rc

R/Rc SWITCH
DOWN

① C   G   Y   R

W   R

AIR HANDLER   OIL FURNACE   MCR39600
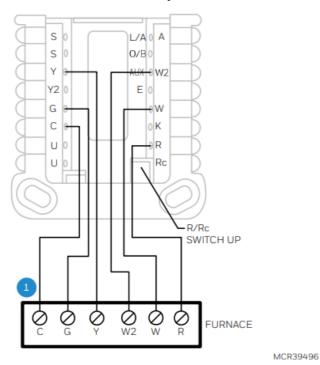
1. COMMON OPTIONAL

2H/1C: Gas Furnace

Compatible model: TH1320U4002 models only

S
S
Y
Y2
G
C
U
U

L/A   A
O/B
AUX   W2
E
W
K
R
Rc

R/Rc
SWITCH UP

① C   G   Y   W2   W   R   FURNACE

MCR39496

1. COMMON OPTIONAL

Transformer System, Hot Water Heat with Air Conditioning (or Hot Water Coil)

Compatible models: All N100
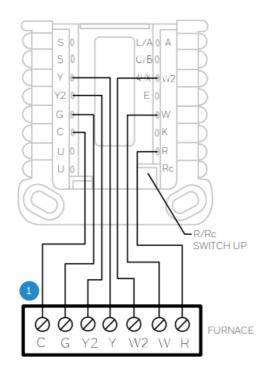
1. COMMON OPTIONAL

2H/2C: Gas Furnace

Compatible model: TH1320U4002 models only
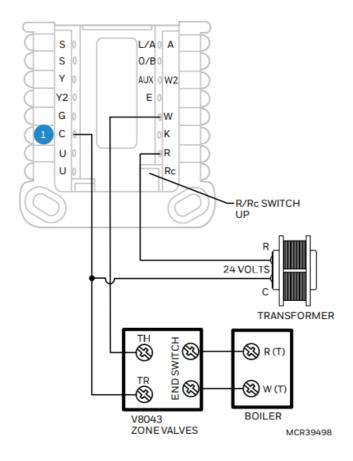
1. COMMON OPTIONAL

Hot Water Heat with Power Open Zone Valve

Compatible models: All N100

TRANSFORMER

24 VOLTS

R/Rc SWITCH UP

TH
TR
END SWITCH
V8043
ZONE VALVES

R (T)
W (T)
BOILER

MCR39498
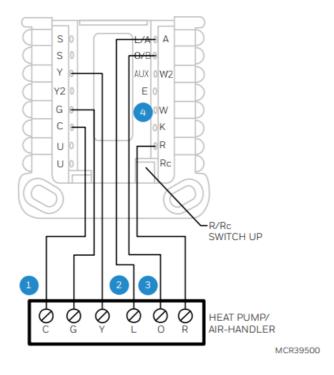
1. COMMON OPTIONAL TO THERMOSTAT

1H/1C: Heat Pump without Aux Heat

Compatible models: All N100

R/Rc SWITCH UP

HEAT PUMP/
AIR-HANDLER

C G Y L O R

MCR39500

1. COMMON OPTIONAL
2. L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL
3. SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE
4. IMPORTANT: DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS! THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.

Hot Water Heat with Power Open/Power Closed Series 20 Zone Valve

Compatible models: All N100
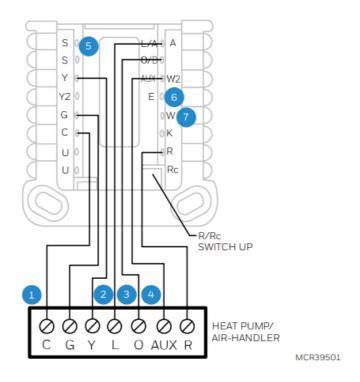
1. COMMON OPTIONAL TO THERMOSTAT
2. THERMOSTAT MUST BE CONFIGURED FOR RADIANT HEAT WITH 0 (ZERO) COOL STAGES

2H/1C: Heat Pump with Electric Aux Heat

- Compatible model: TH1320U4002 models only 6

HEAT PUMP/ AIR-HANDLER

C G Y L O AUX R

R/Rc SWITCH UP

MCR39501

1. COMMON OPTIONAL

2. L IS ONLY CONNECTED IF THE HEAT PUMP HAS A FAULT TERMINAL

3. SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE

4. DIFFERENT HEAT PUMP MODELS MAY LABEL THE AUXILIARY HEAT TERMINAL DIFFERENTLY THAN SHOWN. CONSULT HEAT PUMP WIRING GUIDE

5. IF LOCKOUT OF AUX HEAT ON HIGH OUTDOOR TEMPERATURE IS REQUIRED, WIRE C7089U1006 TO THE TWO S TERMINALS

6. MOST HEAT PUMPS SHARE THE SAME SET OF HEAT STRIPS FOR AUX AND EM HEAT. IN THESE CASES, E IS NOT USED. MODEL TH1320U4002 CAN BE CONFIGURED FOR SEPARATE AUX AND E. IN THIS SITUATION, WIRE ONE SET OF STRIPS TO E TO BE ENERGIZED IN EM HEAT AND A DIFFERENT SET OF STRIPS TO AUX TO BE ENERGIZED IN AUX HEAT.

7. IMPORTANT: DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS! THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.

3H/2C: Heat Pump with Electric Aux Heat

Compatible model: TH1320U4002 only

HEAT PUMP/AIR-HANDLER

MCR39502
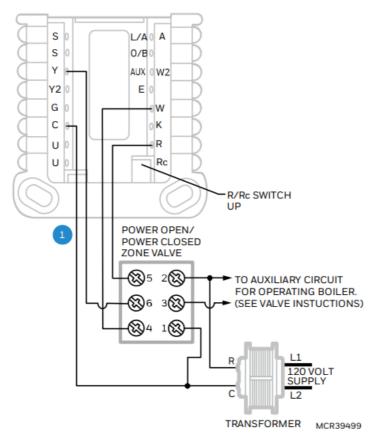
1. COMMON OPTIONAL.
2. L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL.
3. SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.
4. DIFFERENT HEAT PUMP MODELS LABEL THE AUXILIARY HEAT TERMINAL DIFFERENTLY THAN SHOWN. CONSULT HEAT PUMP WIRING GUIDE.
5. IF LOCKOUT OF AUX HEAT ON HIGH OUTDOOR TEMPERATURE IS REQUIRED, WIRE C7089U1006 TO THE TWO S TERMINALS.
6. MOST HEAT PUMPS SHARE THE SAME SET OF HEAT STRIPS FOR AUX AND EM HEAT. IN THESE CASES, E IS NOT USED. MODEL TH1320U4002 CAN BE CONFIGURED FOR SEPARATE AUX AND E. IN THIS SITUATION, WIRE ONE SET OF STRIPS TO E TO BE ENERGIZED IN EM HEAT AND A DIFFERENT SET OF STRIPS TO AUX TO BE ENERGIZED IN AUX HEAT.
7. IMPORTANT: DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS! THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.
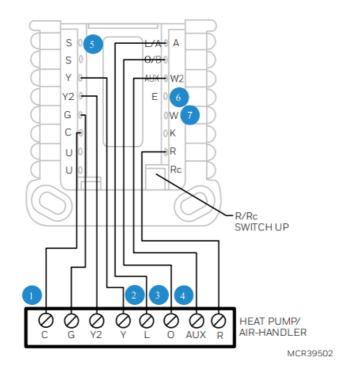
Dual Fuel, 2H/1C: Heat Pump
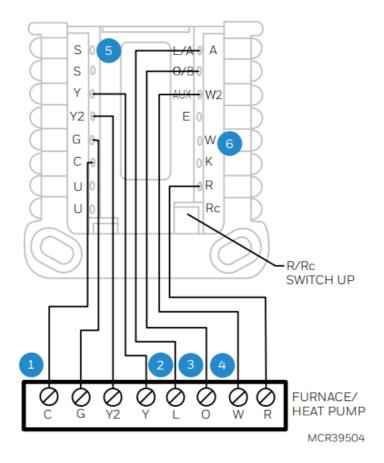
Compatible model: TH1320U4002 only

1. COMMON OPTIONAL.

2. L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL.

3. SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.

4. THE HEAT PUMP AND FURNACE HAVE SEPARATE BOARDS. THEY ARE SHOWN TOGETHER HERE TO SIMPLIFY THIS DIAGRAM. W IS FROM THE FURNACE BOARD.

5. WIRE C7089U1006 TO THE TWO S TERMINALS.

6. IMPORTANT: DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS! THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.
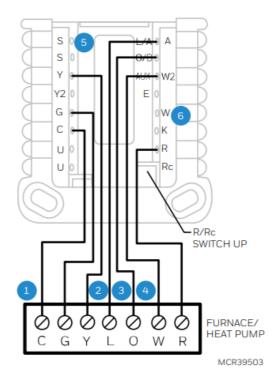
Dual Fuel 3H/2C: Heat Pump
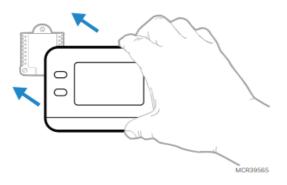
Compatible model: TH1320U4002

MCR39504

1. COMMON OPTIONAL.

2. L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL.

3. SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.

4. THE HEAT PUMP AND FURNACE HAVE SEPARATE BOARDS. THEY ARE SHOWN TOGETHER HERE TO SIMPLIFY THIS DIAGRAM. W IS FROM THE FURNACE BOARD.

5. WIRE C7089U1006 TO THE TWO S TERMINALS.

6. IMPORTANT: DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS! THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.

Thermostat Mounting

1. Push the excess wire back into the wall opening.

2. Close the UWP door. It should remain closed without bulging.

3. Align the UWP with the thermostat and push gently until the thermostat snaps into place.

4. Turn the power on at the breaker box or switch.
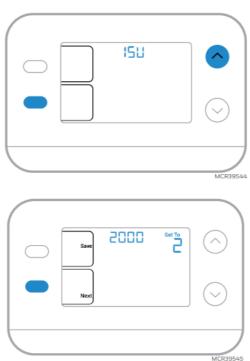
Configuration and Settings

Installer Options

On initial setup, the thermostat will enter the ISU menu. If entering the ISU menu after initial setup, follow the steps below:

1. Press and hold the bottom left button and the Up arrow button for 5 seconds to access the INSTALLER SETUP (ISU).
2. The ISU number is on the left. The ISU setting is on the right. When an ISU number is displayed, press up or down to change the setting.
3. After choosing the correct setting for an ISU, press NEXT to advance to the next ISU setting.
4. To finish the setup, press the SAVE button.

Installer Setup Options (ISU)

#ISU	ISU Name	ISU Options (factory defaults are in **bold**)
1050	Temperature Indication Scale	**F = Fahrenheit** C = Celsius
1060	Outdoor Sensor (TH1320U4002 only. For lock outs only. Does not display)	**0 = None** 1 = Wired Outdoor Sensor
2000	Heating System Type	**1 = Conventional Forced Air Heat** 2 = Heat Pump 3 = Radiant Heat 5 = None (Cool Only)

Depending on system settings, not all options may be available

2010	Heating Equipment Type	*Conventional Forced Air Heat:* 1 = Standard Efficiency Gas Forced Air **2 = High Efficiency Gas Forced Air** 3 = Oil Forced Air 4 = Electric Forced Air 5 = Hot Water Fan Coil *Heat Pump:* **7 = Air to Air Heat Pump** 8 = Geothermal Heat Pump *Radiant Heat:* **9 = Hot Water Radiant Heat** 12 = Steam
2060	Reversing Valve O/B	**0= O (O/B in Cool)** 1=B (O/B in Heat)
2070	Compressor Stages	0, **1**, 2 Only 1 compressor stage available on TH111 0U4000
2071	Heat Stages/Backup Heat Stages	Heat Stages: **1**, 2 Backup Heat Stages: 0, **1** (TH1320U4002 only)
2110	Fan Control in Heat	1 = Equipment Controls Fan **2 = Thermostat Controls Fan** (Only shown if 2010 = 4 or 5)

2175	Aux/E terminal control (TH1320U4002 only)	**0 = Drive both Aux & E together** 1 = Aux and E independent
2180	Backup Heat Source (Heat Pump Only) (TH1320U4002 only)	**31 = Electric Forced Air** 32 = Standard Efficiency Gas Forced Air 33 = High Efficiency Gas Forced Air
2185	Emergency Heat Source (TH1320U4002 only)	34 = Oil Forced Air, Hot Water Fan Coil 35 = Hot Water Radiant Heat 36 = Other
3000	System Changeover	**0 = Manual** 1 = Automatic
3015	Auto Changeover Differential	**0 °F** to 5 °F **0.0 °C** to 2.5 °C *The Differential setting is the minimum number of degrees from the set-point needed to switch from the last mode running (HeatorCool) to the opposite mode when* *The thermostatic auto-changeover.*
3020	Finish With High Heat Stage	**0 = No** 1 = Yes (TH1320U4002 only)

#ISU	ISU Name	ISU Options (factory defaults are in **bold**)	
3021	Finish With High Cool Stage	**0 = No** 1 = Yes (TH1320U4002 only)	

#ISU	ISU Name	ISU Options (factory defaults are in **bold**)	
3090	Backup Heat Droop	**0 = Comfort** 2 °F to 15 °F (in 1 °F increments) 1.0 °C to 7.5 °C (in 0.5 °C increment). **0 (comfort) setting only available if Backup Heat (ISU 2180) is** **set to Electric.** TH1320U4002 only**.**	
3110	Upstage Timer for Backup Heat	0 = Off 1 = 30 minutes 2 = 45 minutes 3 = 60 minutes 4 = 75 minutes 5 = 90 minutes 6 = 2 hours 7 = 3 hours	8 = 4 hours 9 = 5 hours 10 = 6 hours 11 = 8 hours 12 = 10 hours 13 = 12 hours 14 = 14 hours 15 = 16 hours

		(TH1320U4002 only) If 3090 = 0 and 2180 = 31, 3110 only has settings 0-3.	
3120	Compressor Lockout / Balance Point (TH1320U4002 only)	0 = Off 1 = -15°F (-26°C) 2 = -10°F (-23.5°C) 3 = -5°F (-20.5°C) 4 = 0°F (-18°C) 5 = 5°F (-15°C) 10 = 10°F (-12°C) 15 = 15°F (-9.5°C) 20 = 20°F (-6.5°C)	25 = 25°F (-4°C) 30 = 30°F (-1°C) 35 = 35°F (1.5°C) 40 = 40°F (4.5°C) 45 = 45°F (7°C) 50 = 50°F (10°C) 55 = 55°F (13°C) 60 = 60°F (15.5°C)
3121	Outdoor Lockout Backup Heat (TH1320U4002 only)	0 = Off 5 = 5°F (-15°C) 10 = 10°F (-12°C) 15 = 15°F (-9.5°C) 20 = 20°F (-6.5°C) 25 = 25°F (-4°C) 30 = 30°F (-1°C)	35 = 35°F (1.5°C) 40 = 40°F (4.5°C) 45 = 45°F (7°C) 50 = 50°F (10°C) 55 = 55°F (13°C) 60 = 60°F (15.5°C) 65 = 65°F (18.5°C)

3125	Lockout Fan after a Cool call	[0] = Off 1 = 5 min 2 = 10 min 3 = 15 min 4 = 20 min 5 = 25 min 6 = 30 min 7 = 35 min 8 = 40 min 9 = 45 min 10 = 50 min 11 = 55 min 12 = 60 min	13 = 65 min 14 = 70 min 15 = 75 min 16 = 80 min 17 = 85 min 18 = 90 min 19 = 95 20 = 100 min 21 = 105 min 22 = 110 min 23 = 115 min 24 = 120 min
3140	Compressor Cycle Rate (Stage 1)	1 – 6	
3141	Compressor Cycle Rate (Stage 2)	1 – 6 (TH1320U4002 only)	
3150	Heating Cycle Rate (Stage 1)	1 – 12	
3151	Heating Cycle Rate (Stage 2)	1 – 12 (TH1320U4002 only)	
3160	Heating Cycle Rate Auxiliary Heat	1 – 12 (TH1320U4002 only)	
3165	Heating Cycle Rate Emergency Heat	1 – 12 (TH1320U4002 only)	

3240	Compressor Protection	0 = Off 1 – **5** minutes
4100	Maximum Cool Setpoint	50°F to **99°F** 10°C to **37°C**
4101	Minimum Cool Setpoint	**50°F** to 99 °F **10.0°C** to 37.0 °C
4102	Maximum Heat Setpoint	40°F to **90°F** 4.5°C to **32.0°C**
4103	Minimum Heat Setpoint	32 °F to 50 °F (Default is **40 °F**) 0 °C to 10.0 °C (Default is **4.5 °C**)

7110	Air Filter Replacement Reminder	**0 = Off** 1 = 10 Run Time Days 2 = 20 Run Time Days 3 = 30 Run Time Days 4 = 45 Run Time Days 5 = 60 Run Time Days 6 = 90 Run Time Days 7 = 120 Run Time Days 8 = 150 Run Time Days 9 = 30 Calendar Days	10 =45 Calendar Days 11 =60 Calendar Days 12 =75 Calendar Days 13 =3 Calendar Months 14 =4 Calendar Months 15 =5 Calendar Months 16 =6 Calendar Months 17 =9 Calendar Months 18 =12 Calendar Months 19 =15 Calendar Months

14003	Backlighting	**0 = On Demand** 1 = Continuous *Common wire is needed for Continuous.*
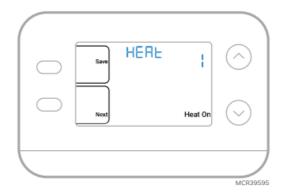
14004	Backlight brightness	1 – **5** (*Only displayed if Continuous Backlight is selected.*)
14005	Idle screen selection	0 – Minimum Information shown 2 – Maximum display information shown
14020	Temperature Display Offset	-3 to 3 F **(0)** -1.5 to 1.5 C **(0)**

Installer Test

1. After finishing the INSTALLER SETUP, the N100 enters INSTALLER TEST mode.
2. The display will show the current test mode. To test the mode displayed, press **up.** If testing Heat or Cooling on multi-stage equipment, a second press of the **up** button will indicate a call for Stage 2.
3. Press NEXT to advance to the next mode in the test menu. Possible settings in the test menu are Heat, Cool, Em Heat and Fan.

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System Test	System Status	
	Shaded areas below apply _only_ to TH1320U4002	
Heat	0	All Off
	1	Heat Stage 1 On
	2	Heat Stage 2 also On
	3	Heat Stage 3 also On
Cool	0	All Off
	1	Cool Stage 1 On
	2	Cool Stage 2 also On
Em Heat	0	All Off
	1	Em Heat On
Fan	0	Fan Off
	1	Fan On

Note: If ISU 1060 is set for a wired outdoor sensor, that sensor reading is shown in the display after cycling through the Installer test menu but is not shown on the home screen.

System Operation Settings

1. Press the MODE button to cycle to the next available System mode
2. Cycle through the modes until the desired System mode is displayed. Available System modes vary by model and system settings

System modes

- AUTO
- HEAT
- COOL
- EM HEAT
- OFF

Fan Operation Settings

1. Press the FAN button to cycle to the next available Fan mode.

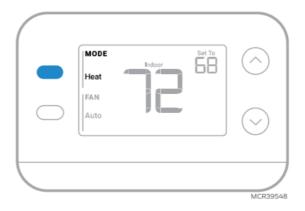2. Cycle through the modes until the desired Fan mode is displayed

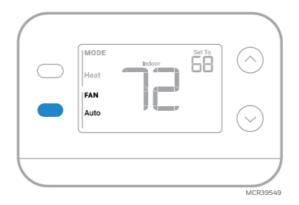Available Fan modes vary with system settings.

Fan modes

- **AUTO:** Fan runs only when the heating or cooling system is on
- **ON:** Fan is always on
- **CIRC:** Fan runs about 33% of the time to circulate air

Auto Changeover

When a thermostat is set to Auto Changeover, the thermostat has a Heat setpoint and a Cool setpoint and can run either Heat or Cool as needed.

1. Verify the thermostat is set to Auto Changeover mode. Press the MODE button in the upper left until AUTO is selected. Press the SAVE button (Center left).
2. Press the **up or down** button. Upper right shows HEAT TO or COOL TO in flashing text, and the setpoint. Use the **up or down** button to adjust the setpoint. If the display shows HEAT TO flashing when you want to adjust the Cool setpoint, or vice versa,
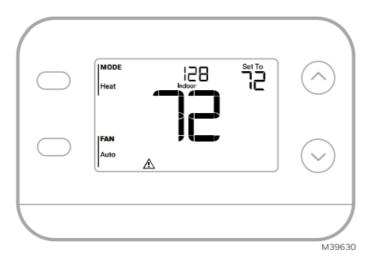
press the System button. While HEAT TO or COOL TO is flashing, the mode indication at upper left shows either HEAT or COOL flashing. Pressing the MODE button at this time changes the setpoint being adjusted from HEAT to COOL or vice-versa.

Heat and cool set to the same temperature

Most customers are comfortable in a 2–3 degree temperature range. Therefore, the heat is usually set a few degrees below the Cool setpoint. When the indoor temperature is between the Heat and Cool setpoints, the system is off. The Heat and Cool setpoints can be the same. To ensure that the system doesn't cycle back and forth between Heating and Cooling, the thermostat observes a differential setting (set by the installer). If the thermostat last ran in Heat mode, it cycles heat on and off to maintain the setpoint. The indoor temperature must rise to the differential setting before it switches to Cool. Then cooling will run down to the Cool setpoint and cycle cooling on and off to maintain as needed. The thermostat would then need to drop to the differential setting before switching back to Heat. Typically, a thermostat using Auto Changeover would only need to switch over twice per day as outdoor temperature rises during the day and drops in the evening.
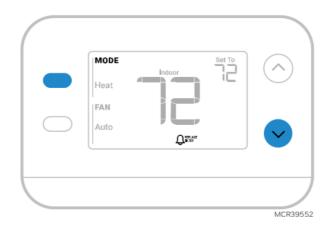
Alerts

When an alert is active, this icon ⚠ will appear in the lower part of the display. Pressing any button will activate the display and show the alert number above the indoor temperature reading. If more than one alert is active, the thermostat will display the number of the next alert after 10 seconds. Some alerts can be resolved by the homeowner, for example, Replace Batteries. Other alerts may require a service call to the professional installer.

M39630

Alert Number	Alert Meaning
405	Low batteries
407	Critically low batteries
164	Heat Pump has detected a fault
170	Thermostat Memory Failure
173	Internal Sensor Error
178	Wired Outdoor Sensor Error. Check wires and connections to the outdoor sensor.

Replace Filter Reminder

When a Replace Filter reminder occurs, this icon will appear in the lower part of the display along with the message Replace Filter. After replacing the furnace filter, you can reset this reminder by pressing and holding the upper left and lower right buttons for 5 seconds.

MCR39552

Built-in compressor protection

Damage can occur if your system's compressor is restarted too soon after shutdown. This feature forces the compressor to wait for a few minutes before restarting. During the wait time, the display will show the message Waiting For Equipment under the room temperature reading. When the safe wait time has elapsed, the message disappears,

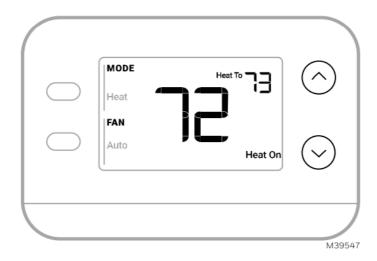and the thermostat will show "Heat on" or "Cool on".

MCR39564

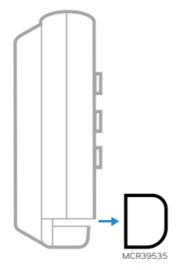**Accent Piece Installation/Replacement**

Private label accent piece for FocusPRO N100 models

Private label replacement accent pieces for N100 thermostats can be ordered.
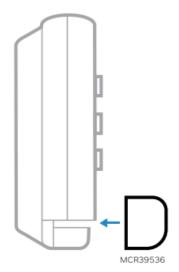
Information about the private label program can be found at:

www.resideo.com/us/en/pro/private-label-program

M39547

Example of the private label accent pieces that can be ordered for the thermostats listed above.

MCR39535

To replace an accent piece, pull it away from the thermostat...

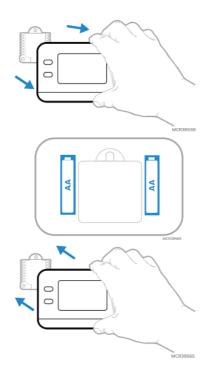MCR39536

...then snap the new one on.

See the video at:

Battery Replacement

The thermostat's display will let you know when the batteries are low and need to be replaced.

1. Remove the thermostat by pulling it away from its mount, as seen below.
2. Be sure to use fresh AA batteries and insert them as shown.
3. After inserting the new batteries, align the thermostat with the mounting plate and push gently until the thermostat snaps back into place.

Troubleshooting

Display is blank	· Check circuit breaker and reset if necessary · Make sure power switch for heating & cooling system is on · Make sure furnace door is closed securely Make sure fresh AA alkaline batteries are correctly installed See [Battery](#) [Replacement](#)

Heating or cooling does not run	· When running heat, the display will show **HEAT ON** in lower right of display
	· When running cool, display will show **COOL ON** in lower right of display
	· If display shows **WAITING FOR EQUIPMENT** under temperature reading, it is **in compressor delay mode** to protect the system. Wait 5 minutes to determine if the thermostat makes a Heat or Cool call
	· If the display doesn't indicate a call for Heat or Cool or **WAITING FOR EQUIPMENT**, verify the mode setting, temperature setpoint and room temperature
	If you press the Up or Down arrow
	· Upper left of the display shows mode setting
	· Upper right shows setpoint
	· The center of the display shows the room temperature
	If the issue persists
	· Check the circuit breaker and reset if necessary
	· Make sure the power switch at the heating & cooling system is on
	· Make sure the furnace door is closed securely

Heat or Aux Heat runs with Cooling	· Verify there is not a wire attached to W for heat pump systems. See **Wiring Diagrams**. · For heat pump applications, the reversing valve is energized in Heat on some heat pumps and Cool for other heat pumps. Verify **ISU 2060** is set correctly · Verify that no wires are shorted. Look for exposed sections of wire at the UWP
Heat or Aux heat runs with no call for heat or cooling	· Verify display does not indicate **HEAT ON**, **COOL ON** or **AUX HEAT ON** · Verify there is not wire attached to W for heat pump systems. See **Wiring Diagram**. · Verify that no wires are shorted. Look for exposed sections of wire at the UWP
Cannot change the setpoint to the desired setting	· Verify the mode setting (Heat, Cool, Auto, or Em Heat in upper left of display) **The setting ranges for these modes are** o Heat or Em Heat: 32 ºF to 90 ºF (0 ºC to 32.0 ºC) o Cool: 50 ºF to 99 ºF (10.0 ºC to 37.0 ºC) If the setpoint can be adjusted, but not to the full range shown above, the thermostat may be configured for a maximum heat or minimum cool setpoint to restrict settings that are energy inefficient.

WAITING FOR EQUIPMENT shown in the display under the room temperature	The compressor protection feature is engaged. Wait a few minutes for the system to safely restart to avoid damaging the compressor. See Built-in compressor protection.

Specifications

Temperature Ranges

- **Heat**: 32 °F to 90 °F (0 °C to 32.0 °C)
  Cool: 50 °F to 99 °F (10.0 °C to 37.0 °C)
- **Working Ambient Temperature** 32 °F to 120 °F (0 C° to 48.9 °C)
- **Operating Ambient Temperature** 32 °F to 102 °F (0 °C to 38.9 °C)
- **Shipping Temperature** -20 °F to 120 °F (-28.9 °C to 48.9 °C)
- **Operating Relative Humidity** 5% to 90% (non-condensing)
- Physical Dimensions in inches (mm) (H x W x D) Thermostat
  - 5-1/8" W x 3-7/16" H x 1-3/16" D

- 130 mm W x 87 mm H x 29.5 mm D

Cover Plate

- 6-1/16" W x 4-3/5" H
- 154 mm W x 117 mm H

Electrical Ratings

- Device Input Power AC: 1.1 VA, 24 VAC nominal (20-30 VAC), 60 Hz
- Load Ratings – see below
- Batteries – Two 1.5V AA alkaline batteries

Terminal	Voltage (60Hz)	Running Current
W Heating	24 Vac	0.02-1.0 A
W Heating	750 mV DC	100 mA DC
W2 (Aux) Heating	24 Vac	0.02-1.0 A
E Emergency Heat	24 Vac	0.02-0.5 A
Y Compressor Stage 1	24 Vac	0.02-1.0 A
Y2 Compressor Stage 2	24 Vac	0.02-1.0 A
G Fan	24 Vac	0.02-0.5 A
O/B Changeover	24 Vac	0.02-0.5 A
L/A Input	24 Vac	0.02-0.5 A

CAUTION: ELECTRICAL HAZARD

Can cause electrical shock or equipment damage. Disconnect power before beginning installation.

CAUTION: EQUIPMENT DAMAGE HAZARD

Compressor protection is bypassed during testing. To prevent equipment damage, avoid cycling the compressor quickly.

CAUTION: MERCURY NOTICE

If this product is replacing a control that contains mercury in a sealed tube, do not place the old control in the trash. Contact your local waste management authority for instructions regarding recycling and proper disposal.

CAUTION: ELECTRONIC WASTE NOTICE

The product and batteries should not be disposed of with other household waste. Check for the nearest authorized collection centers or authorized recyclers. The correct disposal of end-of-life equipment will help prevent negative consequences for the environment and human health.

FCC statement available at: https://customer.resideo.com/en-US/support/residential/codes-and-standards/FCC15105/Pages/default.aspx

Customer Assistance

For assistance with this product, please visit customer.resideo.com or call Resideo Customer Care toll-free at 1-800-633-3991

5-year limited warranty

For Warranty information, go to honeywellhome.com/support

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Frequently Asked Questions

Q: Can I customize the label with my own brand?

A: Yes, the FocusPRO Series allows for a customizable snap-on label. Contact Honeywell for more information on branding options.

Q: How do I troubleshoot common issues with the FocusPRO?

A: Refer to the user manual for a list of common issues and troubleshooting steps. If problems persist, contact customer support for assistance.

Q: Is professional installation required for setting up the FocusPRO?

A: While professional installation is recommended for best results, the provided installation guide can help users with DIY setup. If unsure, consult a professional installer.

Documents / Resources

	Honeywell Home N100 Series Non Programmable Thermostat [pdf] User Guide N100, S200, P200, N100 Series Non Programmable Thermostat, N100 Series, Non Programmable Thermostat, Programmable Thermostat, Thermostat

References

- User Manual

Honeywell Home

Honeywell Home, N100, N100 Series, N100 Series Non Programmable Thermostat, Non-Programmable Thermostat, P200, PROGRAMMABLE THERMOSTAT, S200, Thermostat

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