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How to install a programmable thermostat with only 2 wires

The thermostat uses 1 wire to control each of your HVAC system's primary functions, such as heating, cooling, fan, etc. See the diagram below for what each wire controls on your system: Y – Compressor Stage 1 (Cooling) Y2 – Compressor Stage 2 (Cooling) G – Fan C – Common L/A – A – Input for heat pump fault W -O/B – Heat Stage 1 (Heating) / Reversing valve for Heat Pump systems W2 -Aux/E – Heat Stage 2 (Heating) / Backup Heat R – 24vac (Heating transformer) Rc – 24vac (Cooling transformer) at its most basic, your thermostat connects terminals via internal relays to send power to these different wires to control your HVAC system. For instance, for a gas furnace to turn on the heat, the thermostat internally connects the R terminal (power) to the W terminal (heat stage 1) to turn on the furnace. Look at the list of wiring configurations by system type below. Your wiring will match one of the options below. If you do not see your wiring listed, we recommend using our on-line compatibility checker. 1H/1C Conventional Gas/Oil/Electric Forced Air System (1 transformer): R wire - Power [R+Rc joined by jumper] Y wire - Compressor contactor C wire - 24VAC common W wire - Heat relay G wire - Fan relay 1H/1C Conventional Gas/Oil/Electric Forced Air System (2 transformers): R wire - Power (heating transformer) Rc wire - Power (cooling transformer) Y wire - Compressor contactor C wire - 24 VAC common from cooling transformer W wire - Heat relay G wire - Fan relay 2H/2C Conventional Gas/Oil/Electric Forced Air System (1 transformer): R wire - Power [R+Rc joined by jumper] Y wire - Compressor contactor (stage 1) G wire - Fan relay W2 wire - Heat relay (stage 2) Y2 wire - Compressor contactor (stage 2) Hot Water / Steam / or Radiant in-floor Heat: R wire - Power [R+Rc joined by jumper] W wire - Heat Relay C wire - 24VAC common Heat-only System with Fan: R wire - Power [R+Rc joined by jumper] Y wire - Compressor contactor C wire - 24VAC common G wire - Fan relay 1H/1C Heat Pump System: R wire - Power [R+Rc joined by jumper] Y wire - Compressor contactor C wire - 24VAC common O/B wire - Changeover valve G wire - Fan relay Cool-only System with Fan: R wire - Power [R+Rc joined by jumper] Y wire - Compressor contactor C wire - 24VAC common G wire - Fan relay 2H/1C Heat Pump System: NOTE: If dual fuel, TH6320WF (Trade FocusPRO WiFi 6000 only) R wire - Power [R+Rc joined by jumper] Y wire - Compressor contactor C wire - 24VAC common O/B wire - Changeover valve G wire - Fan relay Aux Auxiliary heat* E wire - Emergency heat relay L wire - Heat pump fault input 2H/2C Heat Pump System: R wire - Power [R+Rc joined by jumper] Y wire - Compressor contactor (stage 1) Y2 wire - Compressor contactor (stage 2) C wire - 24VAC common O/B wire - Changeover valve G wire - Fan relay Aux Auxiliary heat* E wire - Emergency heat relay* Y2 wire - Compressor contactor (stage 2) L wire - Heat pump fault input 3H/2C Heat Pump System: NOTE: If dual fuel, TH6320WF (Trade FocusPRO WiFi 6000 only) R wire - Power [R+Rc joined by jumper] Y wire - Compressor contactor (stage 1) C wire - 24VAC common O/B wire - Changeover valve G wire - Fan relay Aux Auxiliary heat* E wire - Emergency heat relay* Y2 wire - Compressor contactor (stage 2) L wire - Heat pump fault input 7-Day Flexible Scheduling allows owners to program thermostat for the upcoming week and adjust as plans change. Automatically heats and cools home to maintain an optimal temperature Simple instructions and a large backlit display in either Fahrenheit or Celsius make it easy to program Smart Response Learning adapts to heating/cooling cycle times to deliver temperature preference Automatic change reminders for filters and low batteries A real-time clock that automatically adjusts for Daylight Savings Time Temporary and permanent hold settings Compatible with most heating, cooling and heat pump systems Does not work with electric baseboard heat (120-240 V) Honeywell RTH7560 E 7 Day Programmable Thermostat The Honeywell Conventional 7-Day Programmable Thermostat combines the best aspects of intuitive design and increased accessibility. This Honeywell programmable thermostat includes 7-Day Flexible Scheduling that allows owners to program their thermostat for the upcoming week. The addition of automatic heating and cooling will ensure owners have access to optimal temperatures throughout their home. Smart Response Learning will adapt to heating/cooling cycle times. Automatic change reminders have also been included and will readily alert owners whenever filters or batteries require replacement. The inclusion of simple instructions and a large backlit display in either Fahrenheit or Celsius make the Honeywell Conventional 7-Day Programmable Thermostat incredibly easy to program. 7-Day Flexible Scheduling With flexible programming, you can create a custom thermostat schedule for every day of the week, and easily adjust it if your plans change. The programmable thermostat will automatically heat or cool your home to maintain an ideal temperature. Smart Response Learning The T5 Programmable Thermostat learns your preferred heating and cooling cycle times to deliver the right temperature when you want it. This includes automatically changing from heating to cooling for precise temperature control. Intuitive Temperature Control Simple instructions and a large backlit display makes it easy to program your selections and keep your home comfortable all week. Plus, the thermostat reminds you to change filters and low batteries. This 7 Day Programmable Thermostat comes with a real-time clock that automatically adjusts for Daylight Savings Time. Model number: RTH7560E1001 Product Dimensions (WxDxH): 5.36 x 1.08 x 3.86 in. Heating Only: Yes Cooling Only: Yes Compatible with Warm Air Furnace: Yes Compatible with Central Air Conditioning: Yes Compatible with Hot Water: Yes Compatible with Steam or Gravity: Yes Use with Floor/Wall Furnace 24V or 750mV: Yes Use with Volt Gas Fireplace 24V or 750mV: Yes Use with Pellet Stove for mV Thermostats: No Use with Electric Baseboard 120V-240V: No Single-Stage Heating: Yes Single-Stage Cooling: Yes Multi-Stage Heating: Yes Multi-Stage Cooling: Yes Compatible with Heat Pump (No Aux.): Yes Compatible with Heat Pump (No EM): Yes Compatible with Heat Pump (With Aux.): Yes Compatible with Heat Pump (With EM): Yes We independently research, test, review, and recommend the best products—learn more about our process. If you buy something through our links, we may earn a commission. A programmable thermostat allows you to set a schedule that raises and lowers the temperature at set times each day, saving you money and hassle. We spent hours researching programmable thermostats, evaluating them on ease of installation and use, accuracy, and longevity. Our top choice, the Honeywell Home RTH8560D 7 Day Programmable Touchscreen Thermostat, offers seven-day scheduling, automatic heating and cooling cycles, and an easy-to-read interface. Here are the best programmable thermostats. Dimensions: 4.1 x 4.1 x 1.1 inches | Control Type: Touchscreen | Power Source: Hardwired or battery | Program Mode: 7-day Thermostat can be controlled from your smartphone, but this gadget takes it a step further, learning your schedule and the temperatures you like and automatically creating a program to help you save energy and stay comfortable. The sleek circular design comes in a variety of metal finishes, and it's compatible with 95% of heating and cooling systems. The Nest Learning Thermostat is Wi-Fi enabled, meaning you can adjust it right from your smartphone, but it can be manually adjusted via the unit's outer dial, as well. Thanks to its smart programming, the Nest Learning Thermostat can save you up to 12% on heating costs and 15% on cooling, and it can even show you your energy history, providing insights on how much energy you used and why. Dimensions: 4.05 x 1 x 4.05 inches | Control Type: Touchscreen or app | Power Source: Hardwire or plug-in | Program Mode: 24-hour What We Like Wi-Fi connectivity Compatible with most heating/cooling systems Simple design and interface What We Don't Like Geofencing only works with one user SmartSensors sold separately The ecobee Lite Smart Thermostat can be controlled from both Android and iOS devices, allowing you to adjust the temperature from anywhere, and it integrates easily with other smart home devices, as well. It has a simple black design that lights up when it senses you nearby, and its 24-hour programming abilities can save up to 23% annually on heating and cooling costs compared to a hold of 72 degrees. This thermostat is compatible with most heating systems—it works with radiant heating systems, multi-stage, and dual-fuel heat pumps—and it can be paired with the brand's SmartSensors, which can be placed around your home to help manage hot and cool spots. Overall, it's a simple Wi-Fi connected option that gives you more control over your home. Dimensions: 3.4 x 5.63 x 1.17 inches | Control Type: Touchscreen or app | Power Source: Hardwired | Program Mode: 7-day What We Like Superior energy savings Numerous smart features DIY installation What We Don't Like Complicated to install with heat pump If you already have a C-wire (also known as a common wire) in your home, you'll likely want a hardwired thermostat like the Sensi Touch. This smart thermostat is compatible with a wide range of heating and cooling systems, and it allows you to remotely control your home's temperature from your smartphone or tablet. The Sensi Touch offers advanced features such as flexible scheduling and geofencing, and it can save you up to 23% on HVAC energy usage. It's compatible with popular smart home platforms like Amazon Alexa and Google Assistant, and it will even send you smart alerts if it detects extreme temperature or humidity levels in your home. Dimensions: 3.5 x 1 x 4.75 inches | Control Type: Touchscreen | Power Source: Battery | Program Mode: 5-2 day What We Like Simple and easy-to-use Extremely affordable Precise temperature control What We Don't Like Limited compatibility Batteries need to be replaced regularly If you prefer a thermostat without smart features and touchscreens, the Honeywell 5-2 Day Programmable Thermostat is extremely no-frills, yet it still provides the convenience of 5-2 day programming. This simple thermostat has push buttons to adjust the temperature, as well as for hold, run, and programming. There are switches on the bottom of the unit that let you select between heating, cooling, and off, as well as an on/off switch for your fan. The 5-2 day programming allows you to have a different four-period schedule for the two weekend days, and the unit offers precise +/- 1 degree temperature control. The thermostat is backlit for easy viewing, but keep in mind that it's only compatible with low-volt heating and cooling systems. Dimensions: 1.65 x 2.95 x 4.63 inches | Control Type: Touchscreen | Power Source: Hardwired | Program Mode: 7-day What We Like Compatible with 120 or 240v systems Smart start technology Supports up to three mats Includes floor sensor What We Don't Like Screen gets smudged No smart features Radiant flooring has become more popular in recent years, and if you're looking for a thermostat that can control your heated floors, the SunTouch Command Touchscreen Programmable Thermostat is the way to go. It can be used with 120v or 240v systems and connected to up to three mats, as long as the combined amperage is less than 15. It's easy to install if you're just installing heated floors, and it can also be used as a replacement for any floor heating thermostat that uses a 10k sensor wire. The SunTouch Thermostat offers a 7-day programming schedule, and its bright touch screen display has several color themes to choose from. It has a built-in GFCI for safety, and its SmartStart Technology ensures the floor has reached the set temperature at your scheduled time. Dimensions: 5.98 x 4.06 x 2.68 inches | Control Type: Touchscreen or app | Power Source: Hardwired | Program Mode: 7-day What We Like Sleek design Compatible with 120-240v electric baseboards App can manage multiple thermostats Smart functionality What We Don't Like Limited controls via physical unit It can be hard to find a thermostat that works with electric baseboard heat, and one of the best options out there is the Mysa Smart Thermostat. This programmable thermostat works with 120-240v electric baseboards and electric fan-forced heaters, and it requires one neutral or second live wire. It has a sleek minimalist design that solely displays the temperature, but you can set a schedule, track energy use, and more through the Mysa app. Mysa is rated for controlling electric heating systems up to 3,800 watts, and it's not compatible with 12-24v systems like oil or natural gas furnaces. The brand says 80% of people are able to do a DIY installation, and the app makes it easy to manage multiple Mysa thermostats throughout your home. Final Verdict The Honeywell Home 7 Day Programmable Touchscreen Thermostat (view on Amazon) is a great mid-price model that has a sleek design and offers a 7-day programming schedule. If you want all the bells and whistles of a smart thermostat, check out the Google Nest Learning Thermostat (view on Amazon). It automatically creates an optimized schedule based on your habits and preferences, helping to save you money. As you shop for a thermostat, you'll want to consider whether it's compatible with your existing heating and cooling system. If you're replacing an old thermostat with a similar model, you'll likely be able to complete the installation yourself, as it's typically just a matter of reconnecting wires. However, if you're upgrading to a thermostat that has more wires than your existing setup, you may need to have a professional assist with installation, which will ultimately increase the cost of the project. There are several common scheduling options you'll see on programmable thermostats. Arguably the most popular is a 7-day program, which allows you to create an individual heating schedule for each day of the week. Another popular option is the 5-2 day program, which lets you set one schedule for the five weekdays and another for the weekend. Finally, more high-tech thermostats offer 24-hour programming, which gives you the ability to set up to 24 periods each day. In addition to programmability, many thermostats offer additional features that may be useful for your household. Wi-Fi connectivity is one of the most popular features, as it allows you to control and schedule the thermostat from your smartphone. Other features include touchscreen displays, smart home compatibility, smart learning, geofencing, and more. As you decide which of these would be most beneficial to you, keep in mind that thermostats with more features tend to cost more. Depending on where your thermostat is located in your home, you might want a model with an attractive appearance. More modern thermostats tend to have sleek housings, while cheaper models may have boring beige plastic exteriors. As you consider which design will work best for you, keep in mind that you may have to patch your wall if your new thermostat is a different shape or size than your existing one. Can you install a programmable thermostat yourself? If you're replacing your old thermostat with a similar model, it's usually quite easy to complete the job yourself. Inside your thermostat, you'll find terminals labeled with various letters, and it's simply a matter of connecting the proper wire to the right terminal. Most thermostat wires operate on 24-volt power, which means they are generally safe to work on without shutting off the circuit feeding the thermostat wiring. How do you program a programmable thermostat? After installing your new thermostat, you'll need to program its schedule. The process will vary between different models, but in general, you'll have to go through each day's program and select the times and temperatures you want. For instance, you could set it to 70 degrees at 7 AM when you get up, 65 degrees at 10 AM when you leave for work, back up to 70 at 6 PM when you get home, and down to 65 at your bedtime. Most units allow you to set up to four times per day for weekdays, and with a 7-day program, you can adjust this schedule for every day of the week. How much money can you save with a programmable thermostat? According to the US Department of Energy, you can save around 10% a year on heating and cooling by turning your thermostat back 7 to 10 degrees for eight hours a day. So if you program your thermostat to decrease the temperature while you're away at work—or even while you're sleeping—you could save hundreds of dollars a year. Are programmable thermostats suitable for most homes? Yes, programmable thermostats are compatible with most heating and cooling systems. There are even programmable thermostats for electric baseboards, heated floors, and more. This article was written by Camryn Rabideau, a freelance writer and product tester for The Spruce. While selecting thermostats for this article, she considered a wide range of features, including their price, ease-of-use, extra features, and customer ratings. She selected options that work with various types of heating and cooling systems, as well as products for all different price points.

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