

Thermostat Guide – Choosing The Best Thermostat For Your Residential Or Commercial HVAC System

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The Extensive Honeywell Thermostat Line Offers The Perfect Programmable Or Non-Programmable, Digital Or Analog, Thermostat For Your Particular Application

Heating & Cooling Thermostats

Heating & Cooling Thermostats may be categorized as suitable for either “Do It Yourself” (DIY) *Installation* (usually in homes or light commercial applications), or for *Professional Installation* (either in residential or commercial applications).

1. ‘DIY’ Heating and Cooling Thermostats

‘Do It Yourself’ (DIY) Residential Thermostats, available for both residential and commercial heating / cooling applications, fall into two categories: **Programmable Thermostats** and **Non-Programmable Thermostats**. There are many variations available within these thermostat categories.

1.1 DIY Programmable Thermostats \$Save\$

A programmable thermostat can save you up to 33% on your utility bill, if used as directed. You simply set it up to adjust the temperature when you are away from home or asleep (when you don't necessarily need optimum comfort) and your HVAC equipment runs less. Plus, your heating or cooling comes back to a comfort level automatically, just before you come home or wake up.

‘DIY’ 7-Day Programmable Thermostats

There are several highly recommended 7-day programmable thermostats available, from **Honeywell**:

Honeywell RTH8500, 7-Day Touch Screen-Programmable Thermostat

The **Honeywell RTH8500** 7-Day Touchscreen Programmable Thermostat is effortless to use. Its intuitive logic and menu-driven programming respond to your choices and schedule for optimal comfort and energy savings. VisionPRO offers you top-of-the-line features like touchscreen interaction, a real-time clock and a large, easy-to-read backlit display. If you want your home to feel as comfortable as it looks, then the 7-Day Touchscreen Programmable Thermostat is the thermostat for you. You'll enjoy the convenience, energy savings and consistent comfort for years to come. .



Honeywell RTH7500 & RTH2520, 7-Day Pushbutton-Programmable Thermostats.

The **Honeywell RTH7500 & RTH2520**, 7-Day Conventional Thermostats apply the same, simple programming logic found in the Honeywell Touchscreen Thermostat to a conventional format with control buttons and a large viewing screen. The result is a very easy-to-use programmable thermostat with intuitive logic that responds to your choices and schedule for optimal comfort and energy savings. The menu-driven programming makes it easy, and the large, backlit display shows room temperature, set temperature and current time all at once. You'll enjoy the convenience, energy savings and consistent comfort that one can expect from a Honeywell Thermostat.



Honeywell RTH7400, 5-1-1 Day Programmable Thermostat

The **Honeywell RTH7400** 5-1-1 Day Programmable Thermostat is yet another option for customizing your schedule to your thermostat. The 5-1-1 Programmable Thermostat let's you program weekdays separate from Saturday and Sunday. The 5-1-1 Thermostat applies the same, simple programming logic found in the Honeywell Touchscreen Thermostat to a conventional format with control buttons and a large viewing screen. The result is a vary easy-to-use programmable thermostat with intuitive logic that responds to your choices and schedule for optimal comfort and energy savings. The menu-driven programming makes it easy, and the large, backlit display shows room temperature, set temperature and current time all at once. You'll enjoy the convenience, energy savings and consistent comfort that one can expect from a Honeywell Thermostat.



Honeywell RTH6300, RTH230 & RTH4300 5-2 Day Programmable Thermostats

The **Honeywell RTH6300, RTH230 (USA & Canada) & RTH4300 (Canada Only)**. 5-2 Day Programmable Thermostats offer a blend of features, performance and value that delivers the highest degree of temperature control accuracy. Each thermostat model has four programmable periods for weekdays and weekends, a digital LCD display and controls concealed behind an easy-open door. Plus, you'll enjoy energy savings by setting the simple programming periods to fit your lifestyle.



Honeywell RLV430A, RLV450A, & RLV4300A Electric Heat Programmable Thermostats

The **Honeywell RLV430A (USA & Canada), RLV450A, & RLV4300A (Canada Only)** Electronic Programmable Baseboard Heat Thermostat provides exceptional control of resistance-rated heating systems. Depending on local climate, night and day temperature setback can save up to 28% of the energy used to heat a controlled zone. According to the Electric Power Research Institute, precision temperature control also offers up to 12% energy savings over conventional bi-metal heating thermostats (over a similar period). Honeywell's electronic heat programmable thermostat features a digital display and offers 7-day (programming for each day of the week) and 5-2 day (weekdays & weekends) programmability for electric baseboard heat.



1.2. 'DIY' Non-Programmable Thermostats

A non-programmable thermostat provides simple control of your heating and cooling system. Simply set it to the temperature that you want and adjust it up or down as desired. Honeywell has manufactured non-programmable thermostats for over 100 years. The **Honeywell T87 Round® Thermostat** is one of the most recognized control products in the world. It's even in the Smithsonian Institute for design excellence. You can choose from digital models with large, backlit screens that are easy to read and use, or non-digital models with simple adjustment and operation. Non-programmable thermostats can be either Digital or Analog (Non-Digital)

1.2.1. 'DIY' Digital Thermostats

Digital Thermostats offer electronic control and large, digital displays that can be lighted. These features combine to make an easy to use thermostat.

Honeywell T87 Digital Round® Thermostat

The **Honeywell T87 Round Thermostat** has been a symbol of quality and comfort for over fifty years. Now 'The Round' Thermostat has gone digital. The familiar twist of the ring quickly adjusts the temperature, which registers on the large, easy-to-read digital display. A one-touch backlight illuminates the display for easy use in all lighting conditions, even in the dark. As always, the temperature remains within one degree of the set point, and the settings are retained in memory in the event of a power outage. The Digital Round Thermostat carries on Honeywell's tradition of quality comfort control.



Honeywell Digital Non-Programmable Thermostat RTH Series

The **Honeywell RTH Series Digital Non-Programmable Thermostats** offer the perfect blend of features, performance and value that delivers the highest degree of temperature control accuracy. With the largest backlit screen in its class and an easy-to-read display, the Honeywell Digital Non-Programmable Thermostats prominently display both room and set temperature. Plus, you'll enjoy features like an easy-access battery door, soft-key controls and the reliability you can expect from a Honeywell thermostat.



1.2.2. 'DIY' Analog (Non-Digital) Thermostats

Non-Digital Thermostats offer simple, straightforward temperature control in a easy to use and understand analog presentation. Simply twist the dial or move the lever to adjust temperature set points. Non-digital thermostats come in several models that fit certain applications.

Honeywell Round® Thermostat Model Number CT87

The **Honeywell Round Thermostat CT87** is the original temperature controller, and an industry classic. It's even in the Smithsonian Institute for it's simple and utilitarian design.



Honeywell Standard Thermostat Model Numbers CT50, CT51, CT53

Standard Non-Programmable Thermostat Model Numbers CT50, CT51, CT53 offer simple, efficient temperature control in a sleek rectangular design with easy-to-use slide levers and switches. Standard Manual Control Thermostats provide effective temperature control of gas, oil or electric heating and air conditioning equipment. They feature a setting and thermometer scale on the thermostat face, as well as simple, slide lever control for temperature adjustment and switching control for system operation. Standard style thermostats can mount directly on the wall or onto a standard junction box. Available in vertical or horizontal, heat only and heat/cool models.



Honeywell Economy Thermostat Model Numbers CT30, CT31, CT33

Honeywell Economy Non-Programmable Thermostat Model Numbers CT30, CT31, CT33 provide quality temperature control in a small, easy-to-use package. The Economy Mechanical Thermostat features a bimetal temperature sensor and a snap-action magnetic switch. Models are available for heat only, heat/cool, Millivolt and 12V DC (motor home) applications.



Honeywell Electric Heat Thermostat Model Numbers CT410, CT62, CT60

Honeywell Electric Heat Thermostat Model Numbers CT410, CT62, CT60 are specifically designed for accurate and comfortable control for baseboard heat systems. Honeywell offers a variety of mechanical non-programmable thermostats that provide 240V AC control for electric heat systems. These thermostats offer comfort, simplicity and accuracy at affordable prices. Easy-to-use electric heat thermostats provide reliable line voltage control of resistive rated electric heating equipment. Snap-action switch activates heat for positive temperature control.



2. Professionally Installed Heating & Cooling Thermostats

Professionally Installed Thermostats, available for both residential and commercial heating / cooling applications, also fall into two categories: *Programmable Thermostats* and *Non-Programmable Thermostats*. Again, there are many variations available within these thermostat categories.

2.1. Professionally Installed Programmable Thermostats

A professional thermostat installation ensures proper heating and cooling system operation and takes installation risk out of your hands. Start by calling the heating and cooling professional that installed your equipment. Their business contact information is likely posted right on your furnace or air conditioner unit.

Honeywell Vision PRO® IAQ Thermostat Model Numbers TH9421, THM5421C1008, YTH9421C1002

Honeywell Vision PRO IAQ Thermostats, with Honeywell's Vision PRO IAQ Total Home Comfort System enable you to control comfort and Indoor Air Quality (IAQ) throughout your entire home. VisionPRO IAQ eliminates the need for multiple controls in your living space, by managing your home's temperature, humidification, dehumidification and ventilation - all from a single, easy-to-use touchscreen control.



Honeywell Vision PRO 8000 Series Touchscreen 7-Day Programmable Thermostat Model Numbers TH8110U1003, TH8320U1008, And TH8321U1006, TH8110U1011, TH8320U1016 and TH8321U1014

Honeywell Vision PRO 8000 Series Touchscreen 7-Day Programmable Thermostats are effortless to use. Their intuitive logic and menu-driven programming respond to your choices and schedule for optimal comfort and energy savings. VisionPRO offers you top-of-the-line features like touchscreen interaction, a real-time clock and a large, easy-to-read backlit display.



Honeywell Focus PRO® 6000 Series 5-1-1 Day Programmable Thermostat Model Numbers TH6110D1005, TH6110D1021, TH6220D1002, TH6220D1028, TH6110D1013, TH6110D1039, TH6220D1010, TH6220D1036 and TH6320U1000

Honeywell Focus PRO® 6000 Series 5-1-1 Day Programmable Thermostats offer the perfect blend of features, performance and value that delivers the highest degree of temperature control accuracy. With the largest backlit screen in its class and an easy-to-read digital display, FocusPRO prominently displays both room and set temperatures. Plus, you'll enjoy energy savings by setting the simple programming periods to fit your lifestyle.



Honeywell PRO® 4000 Series 5-2 Day Programmable Thermostat Model Numbers TH4110D1007, TH4210D1005, TH4110D1015, TH4210D1013

Honeywell PRO 4000 Series 5-2 Day Programmable Thermostats offer the simplicity of a manual thermostat with the benefits of energy savings. Honeywell's PRO 4000 has all the basic features you want, including an easy-to-read backlit display and simple programming functions. Best of all, it's backed by the Honeywell name.



Honeywell PRO® 2000 Series 5-2 Day Programmable Thermostats Model Numbers TH2110D1009 and TH2210D1007

Honeywell PRO® 2000 Series 5-2 Day Programmable Thermostats offer the perfect solution for multi-family housing developments or apartment complexes. These PRO series thermostats feature the quality, reliability and performance that you can expect from Honeywell at a price that's just right.



Honeywell LineVoltPRO® 8000 Series 7 Day Programmable Electric Heat Thermostat Model Numbers TL8230A, and TL8130A

Honeywell LineVoltPRO 8000 Series 7 Day Programmable Electric Heat Thermostats are amongst the most advanced digital, programmable thermostats for electric heating that you can find. They feature precise comfort control, a sophisticated design and high-end programming features. Begin lowering your heating bill immediately with the pre-programmed 7-day schedule, or modify the programming to suit your lifestyle. With LineVoltPRO 8000, you'll see substantial savings and feel consistently comfortable.



2.2. Professionally Installed Non-Programmable Thermostats

Non-programmable thermostats can be either Digital or Analog (Non-Digital).

2.2.1. Professionally Installed Digital Non-Programmable Thermostats

A non-programmable thermostat provides simple control of your heating and cooling system. Set it to the temperature you want and adjust it up or down as desired. Honeywell has manufactured non-programmable thermostats for over 100 years and specializes in providing professional thermostats.

Honeywell PRO® 3000 Series Digital Non-Programmable Thermostat Model Numbers TH3110D1008, TH3110D1016, TH3210D1004, and TH3210D1012

Honeywell PRO 3000 Series Digital Non-Programmable Thermostats offer the simplicity of a manual thermostat with the convenience of an easy-to-read display. Honeywell's PRO 3000 line of thermostats has all the basic features you could want, including easy operation and a backlit display. Best of all, it's backed by the Honeywell name.



Honeywell Focus PRO® 5000 Series Non-Programmable Digital Thermostat Model Numbers TH5110D1006, TH5110D1014, T5110D1022, TH5110D1030, TH5220D1003, TH5220D1011, TH5220D1029, TH5220D1037, and TH5320U1001

Honeywell Focus PRO®5000 Series Non-Programmable Digital Thermostats offer the perfect blend of features, performance and value that delivers the highest degree of temperature control accuracy. With the largest backlit screen in its class and an easy-to-read display, FocusPRO prominently displays both room and set temperature. Plus, you'll enjoy features like an easy-access battery door, a 5-year warranty and the reliability you can expect from a Honeywell thermostat.



Honeywell PRO® T8775 Non-Programmable Round® Digital Thermostat

Honeywell PRO T8775 Non-Programmable Round Digital Thermostat is a digital version of the original Honeywell Round Thermostat. The familiar twist of the ring quickly adjusts the temperature, which registers on the large, easy-to-read digital display. A one-touch backlight illuminates the display for easy use in all lighting conditions - even in the dark. As always, the temperature remains within one degree of the set point, and the settings are retained in memory in the event of a power outage. The Digital Round carries on Honeywell's tradition of quality comfort control.



Honeywell PRO® 3100 Series Digital Non-Programmable Thermostat Model Numbers: TH1110D1000, and TH1210D1008

Honeywell PRO 3100 Series Digital Non Programmable Thermostats are perfect for multi-family housing developments or apartment complexes, the PRO series thermostats feature the quality, reliability and performance that you can expect from Honeywell at a price that's just right.



Honeywell LineVoltPRO™ 7000 Thermostat Model Numbers TL7235A1003, TL7235A1011, and TL7135A1005

The *Honeywell LineVoltPRO 7000 Thermostat* line delivers the features that matter most in a non-programmable thermostat: precise comfort control, an easy to read backlit display, and a contemporary design to fit your lifestyle.



2.2.1. Professionally Installed Analog (Non-Digital) Non-Programmable Thermostats

Non-Digital Non-Programmable Thermostats offer simple, straightforward temperature control in an easy-to-use and understand analog presentation. You simply twist the dial, or move the lever, to adjust temperature up or down.

Honeywell Round® Mercury-Free Thermostat Model Numbers T87K1007, T87N1000, T87K1015, T87N1018, and Easy To Use Model T87N1026

Honeywell Round® Thermostats are built on the proven performance and reliability of Honeywell tradition. The *Round Mercury-Free Thermostat* features a precision electronic switch that completely eliminates the need for mercury. The thermostat features an enlarged scale that makes it easier than ever to set the temperature exactly where you want it, and since The Round offers precise temperature accuracy, you'll know that what you set is what you'll get. From its classic design to its ease of use, The Round Mercury-Free Thermostat is a true source of comfort. The Round Thermostat provides temperature control for 24 to 27V AC residential heating, cooling or heating-cooling systems



Honeywell PRO®T834 Series Manual Control Thermostat Model Numbers: T834N1002, T834N1010, T8034N1007, T8034N1015, T834L1004, T822K1000, T822K1018, T822K1026, T822K1034, T827K1009, and T827K1017

Honeywell PRO®T834 Series Manual Control Thermostats provide effective temperature control for gas, oil or electric heating and air conditioning equipment. They feature a setting and thermometer scale on the thermostat face, as well as simple, slide lever control for temperature adjustment and switching control for system operation. T834 style thermostats can mount directly on the wall or onto a standard junction box. Available in vertical or horizontal, heat only and heat/cool models.



Honeywell Pro® T812 Series Economy Mechanical Thermostat Model Number T812

The *Honeywell Pro® T812 Series Economy Mechanical Thermostat* features a bimetal temperature sensor and a snap-action magnetic switch. Models are available for heat only; cool only, heat/cool, Millivolt and 12V DC (motor home) applications.



Honeywell LineVoltPRO™ 7000 Electric Heat Thermostat Model Numbers: TL7130A1006, T4800A1007, T410A1013, T410A1021, T410A1047, T410B1004, T410B1129, T4398A1005, T4398A1021, T4398A1013, T4398B1003, and T4398B1029

Honeywell LineVoltPRO 7000 Electric Heat Thermostats offer the simplicity and basic features of a conventional thermostat, with the added precision and comfort of a Honeywell electronic thermostat. Advanced technology minimizes temperature swings and keeps you consistently comfortable.



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We Ship Anywhere in The USA, Canada & Mexico!

Honeywell Catalog

Honeywell Residential Thermostats & Residential Comfort Systems

Equipment, OEM Parts & Supplies:

- Honeywell Digital Programmable Thermostats
- Honeywell Digital Non-Programmable Thermostats
- Honeywell Mechanical Programmable Thermostats
- Honeywell Mechanical Non-Programmable Thermostats
- Honeywell Thermostat Guards
- Honeywell Radiator Thermostats & Radiator Valves
- Other Honeywell Residential Comfort Systems

Honeywell Air Cleaners & Whole House Air Quality

Equipment, OEM Parts & Supplies:

- Honeywell Air Cleaners & Parts
- Honeywell UV Air Treatment
- Honeywell Ventilation Systems
- Honeywell Humidifiers
- Honeywell CO Detection

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Equipment, OEM Parts & Supplies:

- Networked HVAC Zoning
- Conventional HVAC Zoning
- HVAC Zoning Dampers

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Equipment, OEM Parts & Supplies:

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| • Honeywell DP Contactors | • Honeywell Oil Heating Valves |
| • Residential Gas Valves | • Honeywell Oil Heating Controls |
| • Electronic Timer Boards | • Honeywell Pressure Switches |
| • Honeywell Flue Dampers | • Honeywell Transformers |
| • Pilot / Thermocouple / Ignition | • Honeywell Hydronic Heating |
| • Honeywell Gas Ignition Controls | • Honeywell Expansion Tanks |
| • Honeywell Defrost Control | • <input type="checkbox"/> Honeywell Relays & Controls |
| • Honeywell Furnace Controls | |