# LUTRON

seeTemp™
Wall Control in White

TouchPRO Wireless™
Thermostat

HVAC Controller with Wireless
Temperature Sensor in Snow

# Temperature Control from Lutron®

LUTRON®

save
energy
with
Lutron™

# Lutron® Temperature Control

## Why temperature control?

Lutron light and shade controls have always saved energy. So, expanding our energy-saving solutions beyond light control was only natural.

Lutron temperature controls were designed to work in conjunction with our total home control systems and provide convenience, flexibility and energy savings in an aesthetically pleasing design.

## Temperature control solutions for any application

**A three-part thermostat**
You can install each component of the thermostat where it makes the most sense.
• Place the seeTemp™ wall control wherever you desire control, without regard for the local temperature.
• Place the wireless temperature sensor where readings will be most accurate—no need to run wires to that location.
• Install the HVAC controller out of sight near the equipment it is controlling.



The **seeTemp wall control** shows current room temperature and set point, and allows you to adjust the set point and system mode (heating, cooling, auto, fan on/off).

The **HVAC controller** receives wireless commands from the seeTemp wall control and wireless temperature sensor, then controls HVAC equipment using 24V relays. The HVAC controller also communicates with the main repeater to integrate temperature control into your RadioRA® 2 system.

The **wireless temperature sensor** (battery-powered) is surface-mounted to the wall in the living space. It detects temperature and transmits that information to the HVAC controller.

**An all-in-one design—TouchPRO Wireless™**
This solution combines a touchscreen interface, temperature sensor, HVAC control relays, and communication with your Lutron system in one device.
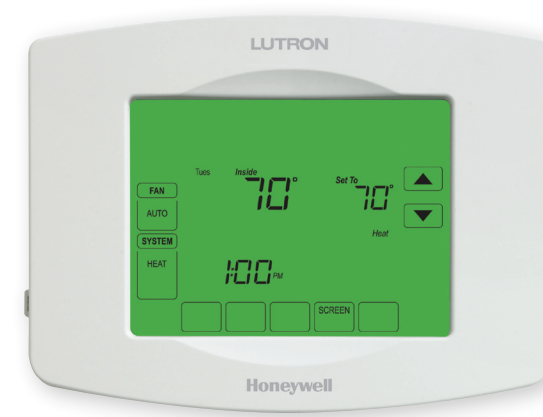


The **TouchPRO Wireless** with Clear Connect™ Technology combines the trusted Honeywell brand with Lutron innovation. It looks like a conventional thermostat, is easy to install and program, and is a simple way to add temperature control to the RadioRA® 2 system. You can also control the thermostat from mobile devices and keypads.

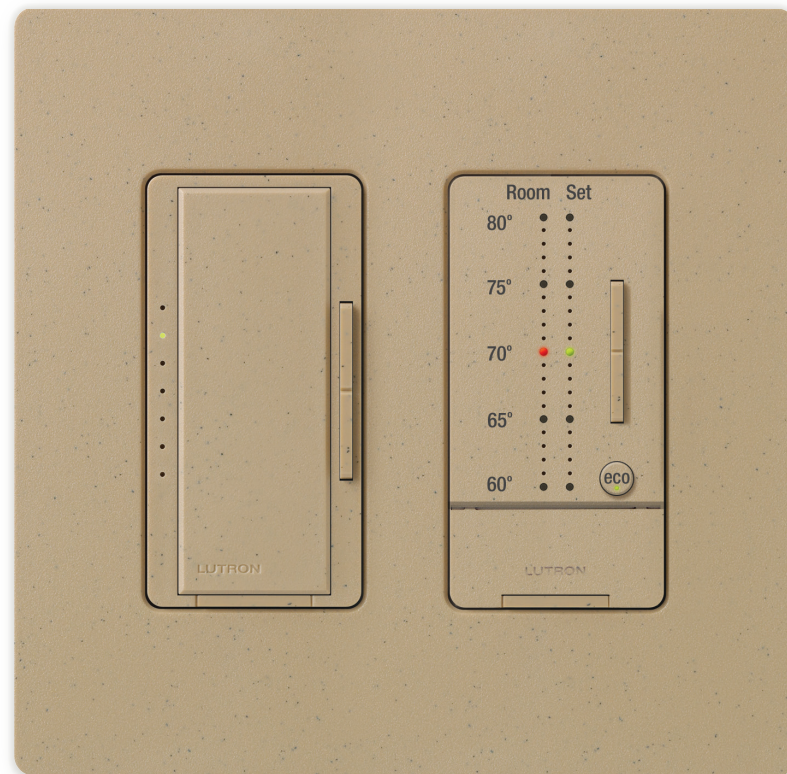**Compatible with seeTemp™ wall controls**
With seeTemp and TouchPRO Wireless you get the benefits of the all-in-one design, as well as multiple control locations with the seeTemp wall control. The designer style of seeTemp enhances décor.
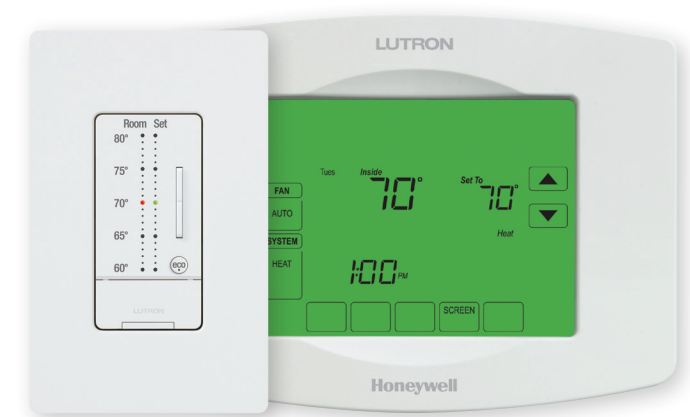


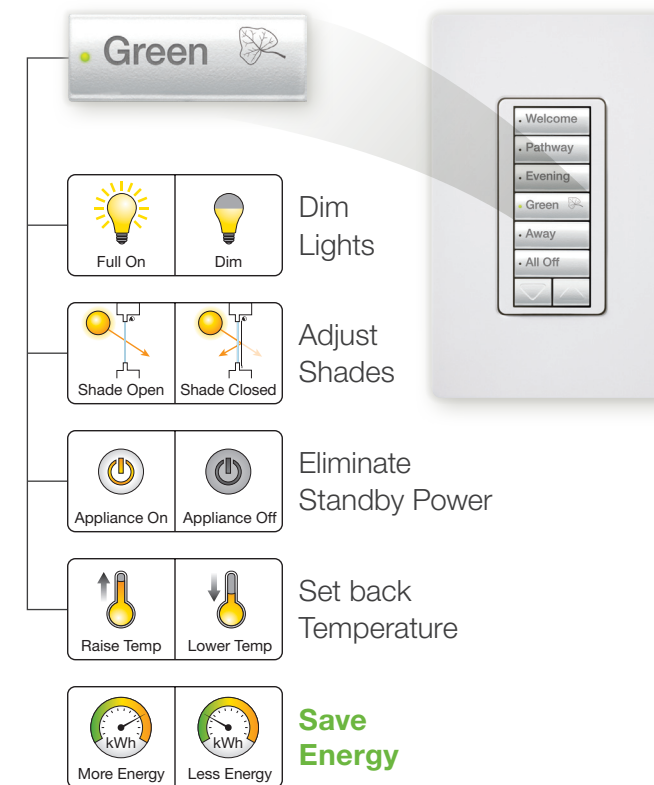seeTemp wall control and TouchPRO Wireless

# Benefits

RadioRA® 2 dimmer ganged with seeTemp™ Wall Control

| White | Ivory | Almond |
|---|---|---|
| Light Almond | Gray | Brown |
| Black | Hot | Merlot |
| Plum | Turquoise | Taupe |
| Eggshell | Biscuit | Snow |
| Palladium | Midnight | Sienna |
| Terracotta | Greenbriar | Bluestone |
| Mocha Stone | Goldstone | Desert Stone |
| Stone | Limestone | |

## Aesthetics

- The seeTemp wall control's elegant, slim design allows it to blend in with a room's décor.
- Reduce wall clutter by installing the seeTemp wall control in any wallbox, either ganged with dimmers and keypads or on its own.
- The seeTemp wall control is available in gloss and Satin Colors® (shown above, right) to match any décor.

### Green

- Full On
- Dim

Dim Lights

- Shade Open
- Shade Closed

Adjust Shades

- Appliance On
- Appliance Off

Eliminate Standby Power

- Raise Temp
- Lower Temp

Set back Temperature

- More Energy
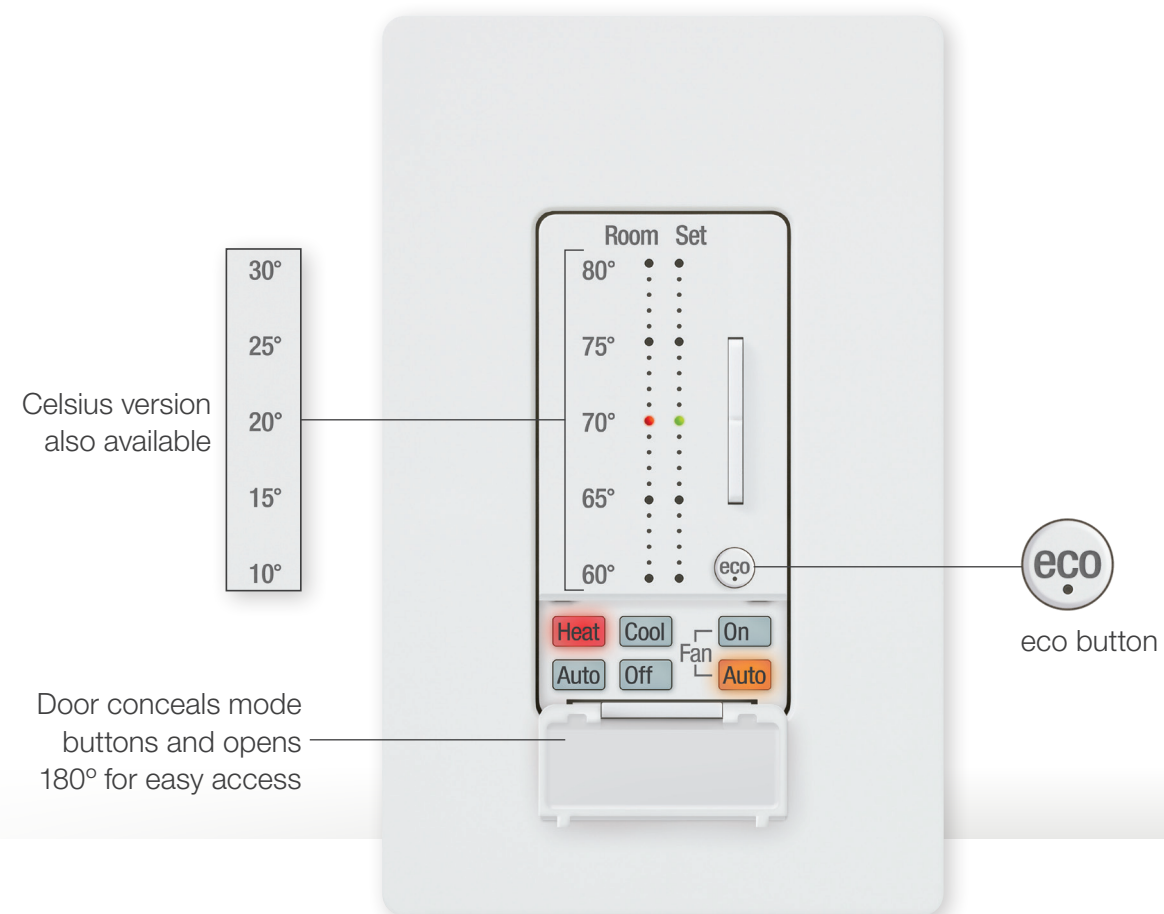- Less Energy

**Save Energy**

## Energy Savings

- Save up to 16% of the energy used on HVAC* with Lutron temperature control.
- Use temperature scheduling to automatically reduce HVAC use at night, while away, or during other times it isn't needed.
- Use the "Green" button (shown above) to control lights, shades, appliances and temperature as part of a whole home system. The "Green" button dims lights 5%, lowers shades to block heat gain and sets back the temperature 2° F. You can save more by personalizing these settings.

* www.energystar.gov

## Convenience

- Control the temperature from anywhere via seeTemp™ wall controls, system keypads, your iPad®, iPhone®, iPod touch®[1], Android™[2], or 3rd-party remote controls and touchscreens.
- Automatically schedule your thermostat to turn off after you leave for work and turn on before you return.

# Product Features

## seeTemp™ Wall Control

Celsius version also available

Door conceals mode buttons and opens 180° for easy access

eco button

- eco button adjusts temperature 2° F to save energy without sacrificing comfort
- Celsius and Fahrenheit versions available
- Multiple seeTemp wall controls may be used—providing multi-location control
- Communicates via Lutron® Clear Connect™ RF Technology to ensure reliable communication and consistent performance
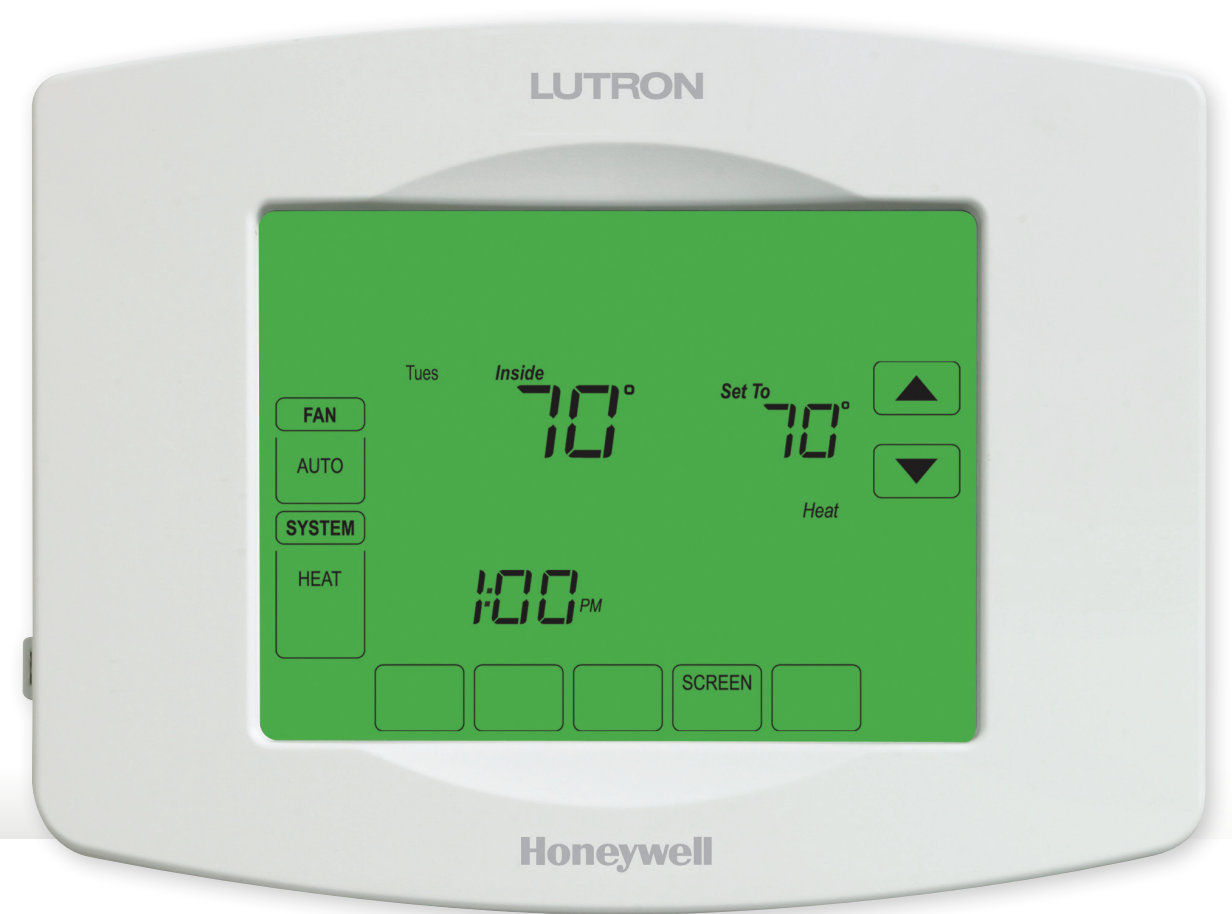
## TouchPRO Wireless™ with Clear Connect™ technology

- Designed by Honeywell and communicates via Lutron Clear Connect RF Technology
- Features an intuitive touchscreen interface
- Easy installation—replaces existing thermostat
- Compatible with designer seeTemp™ wall controls
- Create energy-saving schedules using HomeControl+ app
- Control temperature from keypads, sensors, mobile devices and third-party control systems

# Product Features

## HVAC Controller

**HVAC Controller**

HVAC System Status
O/B
W1  W2  G  Y1  Y2

Wireless Sensor Status
Active    Low Battery

Setup
Test    Link

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| Equipment Type | 2 | 1 |
|---|---|---|
| Conventional - Gas/Oil | Off | Off |
| Conventional - Electric | Off | On |
| Heat Pump - Changeover Cool | On | Off |
| Heat Pump - Changeover Heat | On | On |

Rc/Rh Jumper  Power 24 V~  HVAC Out O/B  Wired Sensor
J1  J2   C Rc Rh   W1 W2 G  Y1 Y2   R1 R2      RS485

### HVAC Controller

• Connects to and controls HVAC equipment using standard low-voltage thermostat wiring
• Integrates temperature control with a Lutron whole-home control system
• Communicates via Lutron Clear Connect RF Technology
• Includes wired return air duct sensor (required)

**Note:** HVAC controller should be installed by a professional HVAC contractor

### Wireless Temperature Sensor

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Link    Test

• No wires—5 year battery life
• If more than one sensor is associated with an HVAC controller, temperatures are averaged
• Communicates via Lutron® Clear Connect™ RF Technology
• Compatible only with the HVAC controller

# System Control Options

## iPad®, iPhone®, iPod touch®[1], Android[2]™

View the current temperature, adjust the set point and system mode, and manage your thermostat schedule using Lutron's Home Control+ app. Use it for convenience while at home or while you're away.

## seeTouch® Keypads

Include temperature control in whole-home scenes like a "Goodnight" scene. When you press the "Goodnight" button the lights turn off and temperature sets back a few degrees to save energy overnight.

### "Away" Mode

If you're going on vacation, select "Away" mode to run a series of lighting events that make your home look occupied. "Away" mode can also maintain an energy-saving set point. If someone stops by and adjusts the temperature, the system will reinstate the "Away" set point—every 6 hours.

# System Control Options

## 3rd-party Integration

View the current temperature and adjust the set point and system mode from your favorite home automation system or programmable remote control. Temperature control commands are available using Lutron's integration protocol via RS-232 or IP.

## Occupancy/Vacancy Sensors

Lutron's Radio Powr Savr™ occupancy sensors can select a set point when a space is occupied, and another when the space is vacant, automatically saving energy when no one is around.
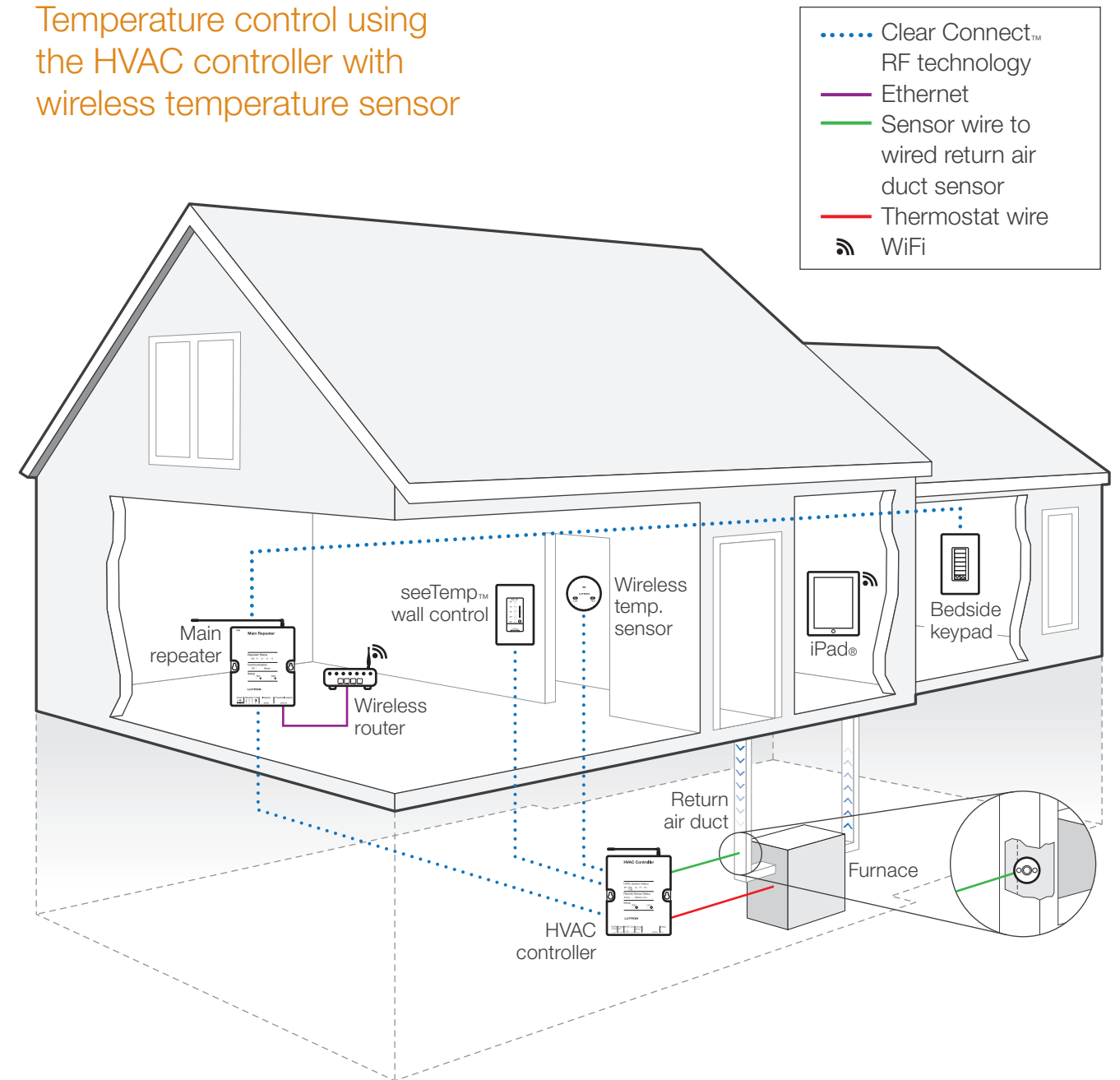
## HVAC Schedule

Automatically control your temperature to save energy using the 7-day, 4-event HVAC schedule. The schedule includes recommended settings to save energy and maintain comfort.
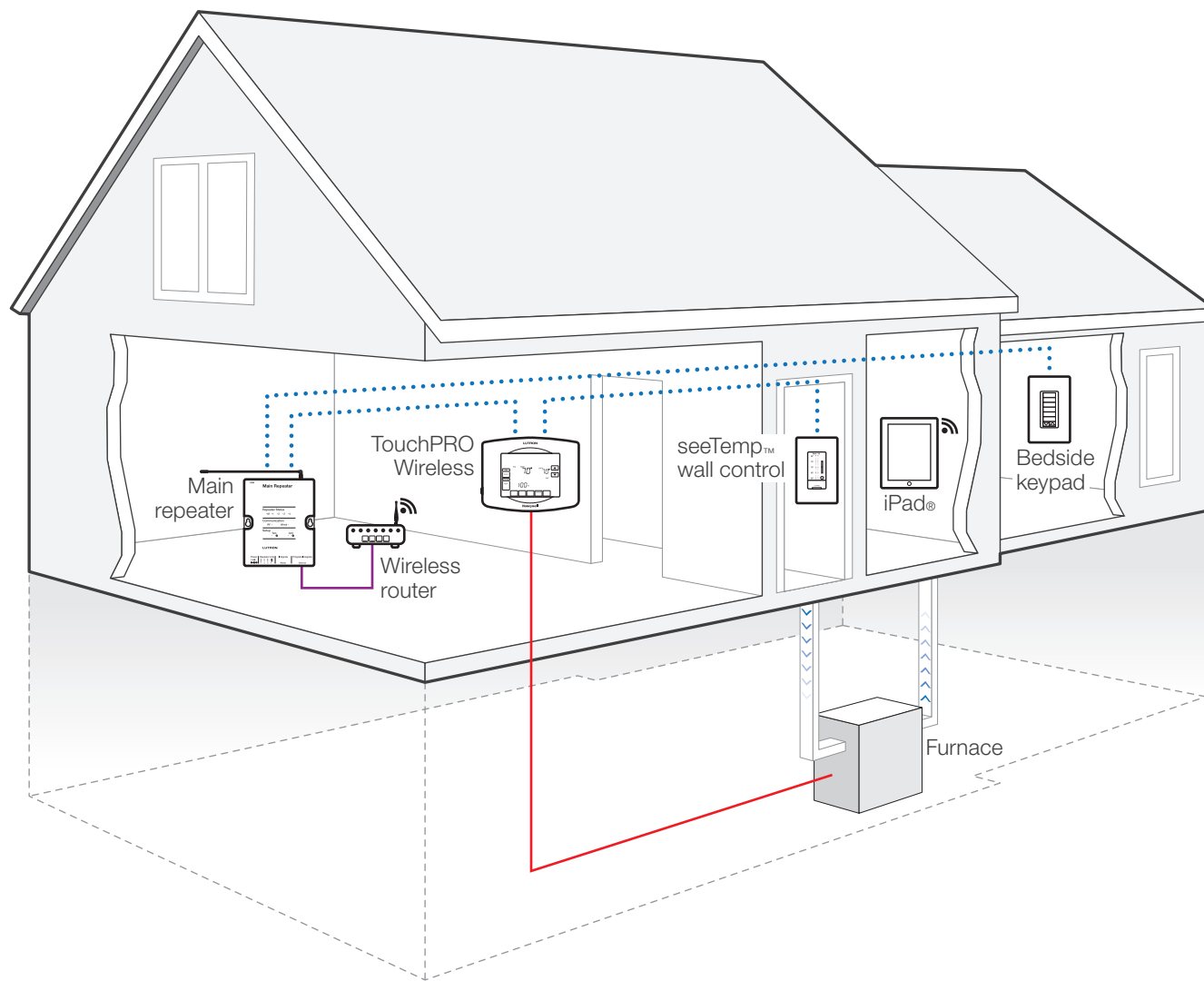
# System Diagram

## Temperature control using the HVAC controller with wireless temperature sensor

- ⋯⋯ Clear Connect™ RF technology
- ▬ Ethernet
- ▬ Sensor wire to wired return air duct sensor
- ▬ Thermostat wire
- 🔊 WiFi

Main repeater

Wireless router

seeTemp™ wall control

Wireless temp. sensor

iPad®

Bedside keypad

Return air duct

HVAC controller

Furnace

# System Diagram

## Temperature control using the TouchPRO Wireless™ thermostat

Legend:
- ····· Clear Connect™ RF technology
- ── Ethernet
- ── Thermostat wire
- 🛜 WiFi

Main repeater
TouchPRO Wireless
seeTemp™ wall control
iPad®
Bedside keypad
Wireless router
Furnace
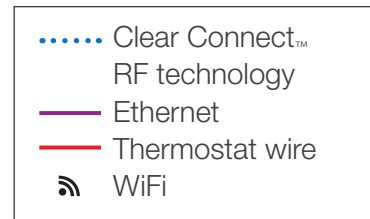
# HVAC System Compatibility

| HVAC Type | Compatible? |
|---|---|
| Single Stage Cool | Yes |
| Two Stage Cool | Yes |
| Single Stage Heat | Yes |
| Two Stage Heat | Yes |
| Packaged Roof Top Units | Yes |
| Heat Pump | Yes |
| Dual Fuel Systems | Yes—Requires a separate Fossil Fuel Kit* |
| Geothermal Heat Pump | Yes |
| Heat Pump with Auxiliary Electric (Emergency) Heat | Yes |
| Typical Variable Speed Fan (Equipment Controlled) | Yes |
| Multi-Zone Systems (Controllable Dampers) | Yes—Requires a separate Zone Controller* |
| In-Floor Radiant Heat | Yes |
| Line Voltage Electric Baseboard | No |
| Mili-Volt System | No |
| Proprietary/Digital Control System | No |
| Variable Speed Fan (Independent Relays) | No |
| Humidity Control | No |
| Humidity Sensing | No |
| Outdoor Temperature Sensing | No |

*Not sold by Lutron®

# Ordering Information

| Model Number | Description | |
|---|---|---|
| LRD-WST-F-XX[3] | seeTemp™ wall control (Fahrenheit) |  |
| LRD-WST-C-XX[3] | seeTemp wall control (Celsius) | |
| LRF2-TWRB-XX[4] | Wireless temperature sensor |  |
| LR-HVAC-INT-XX[4] | Temperature control integration package (1) LRF2-TWRB-XX[4] (1) HVAC Controller |  |
| LR-HVAC-INT-FLSH | Temperature control integration package (flush-mount) (1) Flush-mounted wired temperature sensor (1) HVAC Controller |  |
| LR-HVAC-PKG-WH | Temperature control package with Fahrenheit seeTemp (1) LRF2-TWRB-SW (1) HVAC Controller (1) LRD-WST-F-WH |  |
| LR-HVAC-PKG-C-WH | Temperature control package with Celsius seeTemp (1) LRF2-TWRB-SW (1) HVAC Controller (1) LRD-WST-C-WH | |
| LR-HWLV-HVAC | TouchPRO™ Wireless thermostat |  |

For more information, please contact Technical Support (800.523.9466) or visit **www.lutron.com**.

1  iPhone, iPod touch, and iPad are registered trademarks of Apple®, Inc., registered in the U.S. and other countries.
2  Android is a trademark of Google Inc. Use of this trademark is subject to Google Permissions.
3  Available in 27 gloss and Satin Colors®
4  Available in Snow (SW) or Midnight (MN)

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