NEST

Intelligent Thermostat
Normal Thermostat

- Temperature Sensor
- Temperature Setting (manually entered)
- Time (entered manually)
- Heat/Cool/Off Switch (entered manually)
- Fan Auto/On manual switch

- Some thermostats allow for a schedule to be entered manually
LET US SEE WHAT A
NEST THERMOSTAT
CAN DO
Nest Senses and Learns

Senses and learns from you.
Nest Sense™ is a combination of sensors and algorithms that help Nest understand what's happening around it. It's all built in.

Activity sensors
Nest's activity sensors have a 150° wide-angle view so Nest knows when to set itself to Auto-Away.

Humidity Sensor
Nest's humidity sensor activates Airwave. When indoor humidity is low, Airwave can cut your cooling costs up to 30%.

Weather aware
Nest uses its Wi-Fi connection to keep an eye on current weather conditions and forecasts so it can understand how the outside temperature affects your energy use.

Temperature Sensors
Three temperature sensors track your home's heating and cooling. A one-degree difference can reduce energy use up to 5%, so precision is important.
NEST is Always Connected

**Always connected.**
Monitor Nest and adjust the temperature from the office, the car, your smartphone, your couch, anywhere. You just need Wi-Fi and an Internet connection at home.

**Real-time control**
Control your home’s temperature from your laptop, smartphone or tablet. Make adjustments in real-time, miles from home.

**Your Nest Account**
Log in online or download the Nest Mobile app to your smartphone. You’ll be able to see and adjust your schedule, change the temperature and check weather.

**Automatic updates**
Software updates will load automatically as long as Nest is connected to your Wi-Fi.

**Secure, private & reliable**
Nest is completely secure and uses public key cryptography. Its security features include HTTPS, SSL and 128-bit encryption.
NEST Thermostat Looks Great

- Brushed stainless steel ring
- Bright LCD screen:
  320x320px display, 1.75” diameter
- Built-in rechargeable lithium ion battery
NEST Keeps Getting Better

Nest keeps getting better.

With every new software update, we improve Nest’s features or add new ones. The Nest you buy today will keep getting better.

2.0 Software
Our 2.0 software update touches every part of Nest - the thermostat, Web app and Mobile app.

Nest and its apps now give you more control, more info and easier access to Nest features like Energy History, Away temps and Airwave.

See all the details ▸

Energy History
More info helps you make better decisions, so we’ve expanded Energy History to show you exactly when your heating or cooling system was on each day.

Now you can view Energy History on the Web and Mobile apps, including the iPhone, iPad and most Android smartphones.

See the new Energy History ▸

Airwave™
Airwave automatically switches off your air conditioner a few minutes early, since your AC continues to make cold air for 5-10 minutes after it’s off. Then Airwave uses the fan to spread the cool air through your home. This Nest exclusive can save up to 30% on your cooling costs.

Learn more about Airwave ▸
Heat/Cool Range Schedule

When you set a Range Schedule
- One can program both heating and cooling temperatures for any given set-point.
- Range Schedules can't be learned, only programed.
  - When using a Range Schedule, Learning Mode will be paused

Your thermostat has also gotten an upgrade. We’ve made a few updates to Nest’s menu so you now have easier access to popular features.

- **Range Schedule.** We’ve added Range to the Heating/Cooling/Off menu. A Range Schedule is available in homes with both heat and AC and allows auto-switching between the two. You set a range of temperatures that you want – from 68 to 73, for example. When the temperature falls outside that range, Nest will automatically turn on heating or cooling. Range isn’t currently compatible with Auto-Schedule, but that doesn’t mean you can’t save energy. The Nest Leaf will still appear if you set an energy saving range of temps.
Nest Range Setting on My Thermostat

- Heats when temperature is below 68 degrees
- Cools when temperature is above 78 degrees
- Currently house temperature is 69 degrees
NEST Auto Away

- **What is Auto-Away?**
  - Nest uses its activity sensors to detect when a person’s nearby or when you’re using Nest.
  - If Nest doesn’t notice you for a while, it can start Auto-Away.
    - It’ll turn down your system until your home reaches a minimum or maximum temperature.
    - You choose those temps when you set up your Nest.
    - So, if your minimum Auto-Away temp is 50° and it starts getting colder, Nest will maintain the house at 50° till you get home.
  - Nest will turn on Auto-Away a couple hours after you left.
    - On the other hand, if you generally spend the day working in your room, Nest will learn and give you more time before it turns on Auto-Away.
Pictures of Nest in Homes
NEST Phone App Screens
Control Your Thermostat from your Phone
Nest Corporation

• Founder / CEO
• Tony Fadell
• Bio
  • Tony led the team that created the first 18 generations of the Apple iPod and the first three generations of the Apple iPhone.
• Nest Location
  • 900 Hansen Way, Palo Alto, CA 94304
NEST Saves Energy

- **Auto Away**
  - Turns heating or air conditioning off when you are away

- **Airwave**
  - Airwave technology takes advantage of the fact that your air conditioner’s compressor stays cold for 5-10 minutes after it’s been turned off

- **Nest Leaf**
  - When adjusting the temperature shows energy saving settings

- **Learning**
  - Learns to adjust temperature at night
Nest Internet Links

• Home Page
  • http://www.nest.com/

• Installation Video
  • http://youtu.be/P9fnfZnk6v4

• Setting up Nest Video
  • http://youtu.be/UXzTAZSBnrE

• Learning Features
  • http://youtu.be/6InjhtZ6NP8
My NEST Thermostat
My NEST Thermostat (cont.)
NEST Energy Report for May

Summary for Cupertino, CA for May

You used 17 hours heating and 1 hour cooling.

<table>
<thead>
<tr>
<th>HEATING</th>
<th>COOLING</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAY</td>
<td>17 hr</td>
</tr>
</tbody>
</table>

Check Energy History on the Web or Mobile app to see exactly when your system was on for the last 10 days.
Learn more

You earned 4 Leafs

The national average: 17 Leafs this month.

You earn a Leaf by saving energy for at least an hour a day. Learn about the Leaf
NEST ENERGY SAVINGS

Comparison of 1 month only
Comparison May 2011 to May 2012
Energy Similar Home Comparison

My Energy Use

Show my natural gas by year

May 2011 – May 2012
Similar homes comparison

135 therms

May, Jun, Jul, Aug, Sep, Oct, Nov, Dec, Jan, Feb, Mar, Apr, May

Similar homes
Usage
Costs
Weather
You
All similar homes
Efficient similar homes
What homes are compared?
Temperature Comparison

My Energy Use

Avg. Outdoor Temp.
May 2011 58°
May 2012 62°
4 degrees warmer
My Home Gas Energy Costs from PG&E

My Energy Use

Show my natural gas by year

May 2011 – May 2012

My costs

May 2011 $60
May 2012 $28
Savings $32
Electricity Usage and Net Savings

- May 2011
  - Total energy -248 kWh
  - Credit $55.68
- May 2012
  - Total Energy –212 kWh
  - Credit $47.87
  - (Note: Using solar panels so electricity is a credit in May)
- Electricity Cost Increase $7.81
- Gas Savings - $32.00
- Electricity Cost $ 7.81
- Net Savings $24.19
NEST Benefit Cost vs Savings

- Nest price about $270-$300
  - Available on the Internet via Search or E-Bay
  - Now available at Lowes Hardware and Amazon.com
- Energy Savings
  - Estimate average $10-15/month for 9 months = $90-$135/year
  - Payback after 2-3 years