

The Intuitious Home Energy Controller (ECC-HS) should be installed by a qualified security system installer. All installations must conform to local fire codes, national building codes and life safety codes.

The controller is compatible with gas, oil or electric furnaces and air conditioners with 24 volt control systems. The controller is not compatible with 120-240V controls systems, heat pumps or multi-stage systems.

Please read this manual carefully and discuss the system's operation and options with your installer. Properly installed, the Intuitious Home Energy Controller will operate in the background saving you energy.

The Intuitious Controller receives a one-way feed of information from programmable outputs on the security panel. The Intuitious system does not communicate back to the security panel and therefore should not have any effect on the security system or other life safety functions.

Please Note: This is not the installation guide for this product. The installation guide can be found online at www.intuitious.com



OWNERS GUIDE



ECC-HS HOME ENERGY CONTROLLER for Security Systems Patent Pending

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ABOUT YOUR NEW ENERGY CONSERVATION CONTROLLER

Congratulations, your home has just been equipped with an advanced energy saving device that will substantially reduce heating and air conditioning fuel consumption, thus reducing energy costs and prolonging the life of your equipment.

Introduction

The Intuitious controller is installed directly on the furnace return air duct and has been connected to your security system so that it knows when you are home, away or sleeping. The controller is also connected to the furnace and air conditioner so that it can override the thermostat and save energy at times when you won't notice. The controller has an on-board computer that uses advanced logic, timers and a temperature sensor to optimize energy saving opportunities without adversely affecting your comfort. Unlike a programmable thermostat, the Intuitious Energy Conservation Controller never needs to be programmed or managed in any way. It is 100% automatic; you will forget it's even there.

HERE'S HOW IT WORKS

Daytime Setback

When you leave your house and activate the AWAY feature of the security system, the Intuitious controller receives notification that the house is vacant and places the heating and cooling system into a managed setback. The heating setback temperature can be 68, 66, 64 or 62 degrees F (20, 19, 18, 17 deg. C). The air conditioning setback (sometimes referred to as setup) can be 76, 78, 80 degrees F or OFF (24, 26, 27 deg. C). These temperature options are selectable on the front of the controller (see page 9, Changing Controller Options). When you return home and deactivate the security system, the Intuitious controller transfers heating and cooling control back to the thermostat. There is also a timer option to have the controller exit the setback mode before you return home to ensure the house has been restored to comfort level.

Night Setback

Similar to the Daytime Setback feature, there is a Night Setback option. When you are at home for the evening and going to bed, you can activate the STAY feature from the

security keypad. With most security systems, the STAY feature arms the perimeter door and window sensors and disregards the interior motion sensors. If this feature is enabled, the Intuitious controller will enter the managed setback mode until you wake and disarm the security system. There is also a timer option to have the controller exit the setback mode before you wake. More information on this option and setting the restore timer can be found on page 9, Changing Controller Options.

Long Term Setback

If the security system has been in the AWAY mode for 18 hours or longer, (you may have gone away for the weekend or on vacation) the Intuitious controller will lower the setback temperature an additional 3 deg. F and remain in this aggressive energy saving setback mode until you return and disengage the security system.

NOTE (when using the Long Term Setback feature): When you return home from a long vacancy, your home may be uncomfortably cold (or hot in the summer), but the energy savings will have been very significant during your absence. This feature is optional and can be easily disabled by a switch on the front of the controller.

Miscellaneous

There are several other features of the Intuitous Home Energy Controller that are important to understand.

Short Cycling:

It can be detrimental for heating and air conditioning systems to turn on and off too frequently. This is referred to as short cycling. To prevent short cycling, the Intuitous controller implements a 3 minute delay timer between restarts.

Exit Delay:

By default, the controller will enter the managed setback mode immediately whenever the security system is activated in AWAY mode. A 20 minute delay can be enabled. This delay is useful for residents who routinely engage the security system for short periods of vacancy, such as a trip to the local store.

CHOOSING THE SETBACK TEMPERATURE

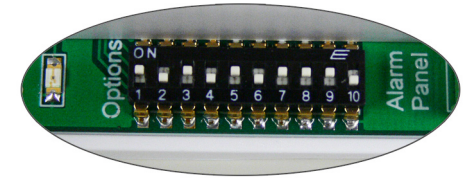
The setback temperature you choose is the temperature that will be maintained in your house while you are away and while you are sleeping. A lower heating setback temperature will save the most energy because the furnace will run less and consume less fuel. However, if the setback temperature is too low, it may be uncomfortable to sleep and/or the house may take a while to return to comfort level after you return home from work.

A number of factors need to be considered when determining the best setback temperatures for your home. The construction and insulation characteristics of your home, the size and type of furnace and your climate will all affect how quickly the house loses heat and how long it takes to restore the house to comfort level.

The Intuitous default setbacks are 66F (19C) for heating and 78F (26C) for cooling. These are fairly conservative settings. We recommend that you start with these setback levels and increase the setback until you find the level that provides the most energy conservation at an acceptable comfort level.

CHANGING CONTROLLER OPTIONS

The Intuitous controller is factory set with typical options that will be acceptable to most homeowners; however the options can be easily changed to fit your needs. These changes are made by altering a series of 10 small configuration switches on the front of the Intuitous controller.



The default configuration can be seen in the image above:
on, off, on, off, on, off, on, on, on, off

Switches can be flipped between the on/off position using a pointed object such as a small screwdriver or a pen. See the table below for a functional description for each option switch.

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#	Function	Description of Controller Options
1 & 2	Heating Setback	These 2 switches are used to select the heating temperature setback using the following 4 combinations: Off-Off=62F, Off-On=64F, On-Off=66F, On-On=68F
3 & 4	Cooling Setback	These 2 switches are used to select the cooling temperature setback using the following 4 combinations: Off-Off=OFF, Off-On=80F, On-Off=78F, On-On=76F
5	Daytime Restore	If enabled, the heat/cool system will exit setback once the daytime restore timer has expired. This feature allows the heat/cool system to exit conservation mode in time to restore the house back to comfort level before the homeowner returns from work. If disabled, setback will continue until occupancy is re-established (i.e. AWAY is turned off). On = Enabled, Off = Disabled
6	Daytime Restore Timer	Used to set the duration of the daytime restore timer. Switch #5 must be on for this setting to take effect. On = 6 hours, Off = 8 hours
7	Night Restore	If enabled, the HVAC system will exit setback once the timer has expired allowing the system to exit conservation mode and to return to comfort level before the residents wake. If disabled, setback will continue until STAY is turned off. On = Enabled, Off = Disabled
8	Night Restore Timer	This switch is used to set duration of the night restore timer. Note that switch #7 must be on for this setting to take effect. On = 6 hours, Off = 8 hours
9	Long Term Setback	If enabled, the system enters long term conservation mode when the space has been vacant (AWAY mode) for 18 hours and longer. The setback temperature is the vacant setback setting minus 3F for heating and plus 3F for cooling. On = Enabled, Off = Disabled
10	Exit Delay	This switch sets the exit delay from immediate to 20 minutes. The delay will prevent the heating and cooling system from entering setback mode until the delay timer has expired. On = 20 min., Off = 0 min.

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WARRANTY

INTUITOUS INC. – ONE YEAR LIMITED WARRANTY

Intuitous products are guaranteed against workmanship defects for a one year period following the date of installation. During this period, Intuitous Inc. will repair or replace, at our option and without charge to the customer, any defective product which has been properly installed and used under normal operating conditions.

This warranty does not cover on-site labor, services or delivery costs and does not apply to products that have been poorly or improperly installed. This warranty supersedes any other manufacturers express or implied warranty.

Intuitous Inc. cannot be held liable for related or random damages following the installation of this product. The defective product along with a copy of the purchase invoice must be mailed, prepaid and insured, to the following address:

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223 Hidden Lake Road
Blue Mountains, Ontario, Canada
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For more information, please visit our website:
www.intuitous.com