



Higher intelligence to lower your energy costs

HVAC & Lighting Energy Conservation Technology
For Commercial and Institutional Buildings



The perfect solution for hotel suites, condominiums and apartments

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Introduction

- **Intuitous Inc.**

- Canadian Manufacturer of Energy Conservation Technologies for:
 - Hotels
 - Apartments/Condominiums
 - Commercial/Institutional
- Both Wireless & Wired Products
- Saves energy by monitoring the temperature, lighting and occupancy of an area and automatically overrides the heating, cooling and lighting systems
- Website: www.intuitous.com



The Intuitious Value Proposition

Conserve During Vacancies	Prevent Excessive Use	Lower Equipment Costs	Protect the Environment
<p>Vacant Space SetBack</p> <p>Long Term Setback</p> <p>Night-Time Setback</p>	<p>High & Low Limiting</p> <p>Open Door Limiting</p>	<p>Reduced Runtime Leads to Longer Equipment Life</p>	<p>Reduced Carbon Footprint and reduced consumption of valuable energy resources</p>
			
<p>25 – 35%</p>	<p>5 – 10%</p>	<p>0 – 10%</p>	<p>Priceless</p>

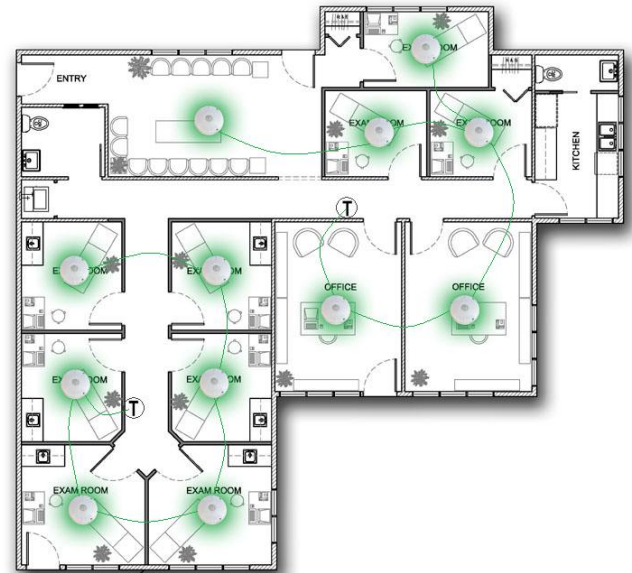
Commercial/Institutional

- **Many Opportunities for HVAC & Lighting Control**
 - High degree of vacancy provides excellent conservation opportunities
 - Each zone can be deployed independently
 - T-bar ceilings enable efficient low cost wired deployments
- **Challenges**
 - Older buildings have a vast array of HVAC systems
 - Installing contractor must be very experienced.
 - System must be able to interface with building automation systems



Commercial/Institutional

- **Typical 2-Zone Office Suite**
 - 2 Wired HVAC/Lighting Controllers with sensors mounted on the ceiling
 - 8 Wired Remote Occupancy Sensors
- **Standard Features (save 25-35%)**
 - Temperature Based Heating Setback
 - Temperature Based Cooling Setback
 - Heating and Cooling Limits
 - Long Term Setback
 - Lighting Control
- **Optional features**
 - Control of Ventilation systems, etc.



Wireless vs. Wired Products

Intuitous offers both Wireless and Wired products to ensure the best possible fit into each building.

- **Wireless**

- Best suited for retrofit installation in multi-unit residential properties, hotels and any application where running control wires from the sensors to the controller would prove challenging.

- **Wired**

- best suited for new construction or retrofit installation in commercial, retail and institutional buildings with easy access to control wiring through T-bar style ceilings and open areas.



Wireless Products: Sensors

- **Occupancy Sensor**

- Compact ceiling mount design
- Optimized for human presence detection
- Integrated Light Sensor
- Wireless = Minimal install time and no in-suite wiring
- Ultra-low power: 2-4 yr battery life



- **Door Sensor**

- Designed for Balcony & terrace doors
- Minimal install time and no in-suite wiring
- Ultra-low power: 3-5 yr battery life



Wireless Products: Controller

- Mounts inside HVAC enclosure
- Runs off HVAC power supply
- Receives status from up to 40 wireless sensors
- Connects to HVAC system with plug-and-play wiring harness
- Independent control of Heating, Cooling & Lighting.
- On-board microcontroller enables:
 - Vacant Space Setback
 - Long Term Setback
 - Night SetBack
 - Hi & Low Limiting
 - Open Door Restrictions
 - Lighting Control
- Highly configurable:
 - Can be set from moderate to aggressive savings to ensure occupant comfort is not compromised
 - Configuration is managed via on-board DIP switches



Wired Products

- **Combination Sensor/Controller**

- All-In-One Compact Design Includes
 - HVAC/Lighting Controller
 - Occupancy Sensor
 - Digital Temperature Sensor
 - Light Sensor
- Independent control of Heating, Cooling & Lighting
- On-board microcontroller enables:
 - Vacant Space Setback
 - Long Term Setback
 - Night SetBack
 - Hi & Low Limiting
 - Lighting Control

- **Remote Occupancy Sensor**

- Up to 10 sensors can be connected to each controller for large zones
- Compact ceiling mount design
- Optimized for human presence detection





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Next Steps...

Visit our website for additional information
www.intuitious.com

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