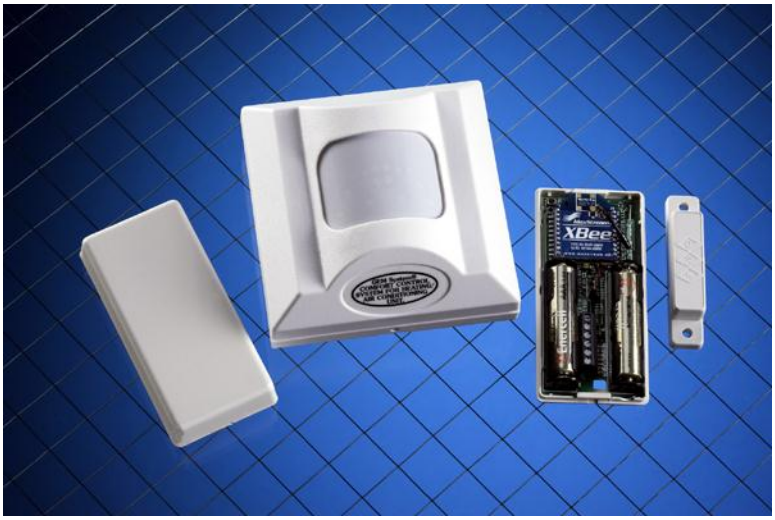
Lodging Technology
LTC ENTERPRISES, LLC

Rebate Incentive Available

The Electric Company
El Paso Electric



GEM Link™ WIRELESS

Let us show you how to reduce room energy costs ***35% to 45%*** …

GEM Link™ Wireless Energy Management

- Reduce wasteful HVAC consumption 35% - 45%
- Return on Investment (ROI) of 100% or more, and a payback of less than two (2) years
- Determine physical presence of people in rooms by detecting infrared body heat
- Provide complete control of room environment while in the room
- Take control when people leave the room, and reset temperature to energy conserving levels
- Completely wireless; superior battery life; uses the ZigBee wireless protocol
- Connects to <u>any</u> HVAC system, including PTAC's, Split Systems, and Fan Coil Units of <u>any</u> voltage
- Manufactured in the USA

About Lodging Technology

For more than 29 years Lodging Technology has been the unsurpassed leader in energy management solutions for hotels, motels, schools and universities in reducing their room energy costs. How do we do it? By bringing together leading edge technology and extensive experience in the industry.

We offer comprehensive and customized solutions, not cookie-cutter responses, and personalized services second to none. Although originally designed for the lodging industry, our systems are equally applicable to other facilities such as school classrooms, college dorms, offices, conference centers, and military lodging facilities.

Green Lodging = Green Profits℠

www.epelectric.com

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GEM Link™ WIRELESS

Product Specifications

GEM Link™ Wireless is an energy management system that reduces HVAC energy consumption 35% to 45% using the reliable 802.15.4 ZigBee wireless protocol. GEM Link™ consists of wireless passive infrared (PIR) Occupancy Sensors, wireless Entry/Patio Door Switches, and a Transceiver control module connectable to any HVAC unit. GEM Link™ utilizes a wireless hand-held Programmer Maintenance Module (PMM) for easy programming of System features.

Transceiver Control Module:

- Operating Voltage: 12 – 30 Volts AC or DC
- Programmable Output: 24 Volts AC, 24 Volts DC, or Dry Contact (Form C, NO/NC, 3 Amp Max.)
- Dimensions: 3.5" x 1.70" x 0.875"
- Power On Reset Feature

PIR Occupancy Sensor:

- Powered by two AAA alkaline batteries
- Battery life of 4-6 years based on occupancy, battery quality and date code
- Transmits Room Occupancy Status and Room Temperature to Transceiver
- Occupancy detection via Dual Element Pyro-Electric Detector
- Wide angle, 20 element Fresnel lens with 94º field of view; covers up to 3600 sq. ft. when mounted at 7' high
- Mounting Options: corner, flat wall, or single gang box
- Dimensions: 3.7" x 3.7" x 2.15"

Entry/Patio Door Switch Module:

- Powered by two AAA alkaline batteries
- Battery life of 4-6 years based on occupancy, battery quality and date code
- Transmits Door OPEN / CLOSE status to Transceiver
- Programmable as Entry or Balcony Door Switch
- Internal switch can be operated by surface mounted magnet, OR internal terminal strip can be connected to recess mounted switch
- Dimensions: 3.5" x 1.70" x 0.875"

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RF Transmission:

- IEEE 802.15.4 ZigBee protocol
- Unique 16 Bit random number address code for each guestroom
- Unique address code for each component (PIR Sensors, Entry or Balcony Door Switches) within room.

Programmer/Maintenance Module:

- Powered by four AA alkaline batteries or 6 VDC Plug-In Transformer
- Straightforward keypad entry of programmable features with actions displayed on two-line 16 character alpha-numeric LCD display
- Monitors room RF radio traffic and displays System operation on display; displays detailed "status flags" for more in-depth troubleshooting
- Cloning feature makes programming quick and simple from room to room

Programmable Features:

- Up to four levels of Temperature Setback (heating and cooling), programmable by time and temperature:
  - Level 1 and 2: 0 – 255 Minutes / 40ºF – 90ºF
  - Level 3 and 4: 0 – 255 Hours / 40ºF – 90ºF
- Balcony Door Timer: 0 – 240 Seconds
- Open Entry Door HVAC Allow: OFF, ON
- Standby Time (no energy management): 0 – 168 Hours
- Status at End of Standby Time, Room Occupancy: OFF, ON
- Comfort Refresh Cycle ON: 0 – 240 Minutes
  Comfort Refresh Cycle OFF: 0 – 240 Minutes
- Temperature Setback Drift Period: 0 – 199 Minutes
- Compressor Short Cycle Time: 0 – 300 Seconds
- Temperature Display: Fahrenheit, Celsius
- Temperature Offset: -20º - +20º
- Property Code A and B: 0 – 199
- Room Number: Digit 1: 0-9, Digit 2: 0-9, Digit 3: 0-9, Digit 4: 0-9, Digit 5: 0-9
- Unoccupied Hysteresis: 0º - 20º