

focus on: wireless

1 **EcoView™ Commercial by Advanced Telemetry, LLC**

EcoView Commercial is a proprietary, real time energy management system that allows both local staff and remote Advanced Telemetry account specialists to view, control, and decrease a facility's energy and resource usage. It can help reduce utility bills by up to 25% and realize returns on investment in six to 12 months.

Facility managers (fms) can monitor and manage electricity and natural gas consumption with additional sensors for water consumption and virtually any other energy consuming device. It is an all in one tool for identifying sources of resource waste at any given time.

Designed for small to medium sized facilities, EcoView Commercial is controlled through a wireless touch panel "dashboard" or online interface and is completely independent of a utility company. A wall-mounted graphical touch panel—the "brain" of the system—receives consumption data from a metering device installed at the breaker panel where electricity mains enter the building. This consumption data is relayed from the touch panel over a broadband connection to the account specialist who can immediately identify and investigate anomalies. Fms can also view real time consumption data and thermostat related settings across all of their locations from any web enabled device. Users can analyze temperature set points, schedules, electricity



consumption, and follow trends, track changes, identify key culprits of energy drain, and make adjustments to settings. Local control of thermostats is limited to predefined limits, preventing on-site employees from increasing or lowering temperature settings beyond predetermined acceptable ranges.

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2 Wireless Remote Surveillance System by Kenwood

The Wireless Remote Surveillance System transmits images from video cameras in remote sites for 24/7 economical monitoring. Law enforcement, government, and private industry can observe virtually any location including areas prone to flooding or rock slides, construction sites, dams, and national parks.

The Wireless Remote Surveillance System consists of a monitor station and a base station linked via NEXEDGE® digital transceivers. A video camera mounted on-site sends still images



2 Wireless Remote Surveillance System by Kenwood

through the KVT-11 Image Encoder to the NEXEDGE NX-700/800 digital mobile radios and base station. The base station receiving the pictures then displays them on a PC using KAS-11 Image Viewer Software. Images can be sent at predetermined intervals or on demand, and transmission can be managed by remote control.

In addition to two layer password protection and log data with search function, the Wireless Remote Surveillance system features a choice of three image display sizes (160 x 120, 320 x 240, and 640 x 480) and five display formats (standard, quadrisection, resolution division, center of quadplex image, center of nonuple image).

The KVT-11 internal memory capacity (8MB) is 450 premium quality or 5400 standard quality images. It is

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compatible with NTSC and PAL cameras, can monitor up to 65,000 camera stations, and automatically stores all images on the viewing computer hard drive. The KVT-11 applies MPEG-4 AVC/H.264 video compression to the images from the camera, which are transmitted at approximately 3.6kbps (12.5kHz) and 1.8kbps (6.25kHz).

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3 Seed by Cantaloupe Systems

Seed is a wireless service that monitors and reports all vending machine purchases in real time over the web. It can help increase driver and route efficiency, prevent loss of product, eliminate theft, decrease paperwork, and automate menial tasks.

Once placed into a vending machine, Seed harvests data from the DEX serial port and sends information wirelessly to a cellular hub using its antenna. The hub receives data from multiple machines and relays all of the information to the Cantaloupe Systems home base. The data is then encrypted and stored in robust SQL databases so vendors can



3 Seed by Cantaloupe Systems

access any current or historical records for purposes such as sales, rebates, and inventory tracking. It also makes businesses instantly aware if a vending machine malfunctions.

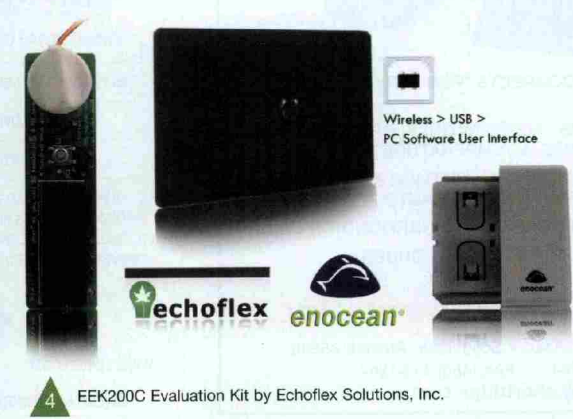
Seed modules have the built-in ability to expand. Using Cantaloupe's interface bus, users can add credit card acceptors, electronic key locks, and LCD screens. The seed website also allows users to track cash and set par levels, coil items, and inventory levels. Reports can be created and saved, and all of the data within the website is exportable to industry standard formats.

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4 EEK200C Evaluation Kit by Echoflex Solutions, Inc.

The EEK200C Evaluation Kit includes everything needed to transmit, receive, and monitor EnOcean technology. It is an inexpensive means of exploring how batteryless and wireless controls enable building automation system integration. Sensor applications can be simulated in any environment without programming or configuration.

The EEK200C Evaluation Kit consists of two transmitters, the STM-110C solar powered sensor module with integrated reed switch, temperature sensor, and set point adjustment and the PTM-220C mechanically powered switch module used for on/off and



4 EEK200C Evaluation Kit by Echoflex Solutions, Inc.

dimming applications (lighting and blinds, etc.). It also has a TCM-200C bidirectional transceiver that communicates directly with WinEtel and all associated lighting and temperature plug-ins (which connects directly to a laptop or PC allowing Windows® based applications to monitor and control) and WinEtel software for monitoring radio packets. EEK200C will work with all current modules and future model versions.

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5 Radio Powr Savr™ by Lutron Electronics Co., Inc.

Radio Powr Savrs are RoHS compliant wall mounted wireless occupancy sensors that come in three versions: corner mount (90° detection), wall mount (180° detection), and hallway mount (long, narrow detection range for hallways and aisles). They detect fine motions through XCT™ technology and are specifically designed for conference rooms, small offices, hallways, kitchens, and other spaces where automatic lighting shutoff is desirable.

Radio Powr Savrs are installed by placing a unit on the wall and replacing a standard light control with a compatible Lutron dimmer or switch. No wiring is required, and the sensors contain accessible buttons for quick setup and an illuminating lens (illuminates orange in

response to motion) to verify ideal placement. Up to 10 dimmers or switches can communicate with a sensor via Clear Connect™ RF Technology, and users can add up to three sensors for better coverage.

Sensors can be programmed to operate as an occupancy sensor (automatic on

Wireless > USB > PC Software User Interface



and automatic off functionality) or a vacancy sensor (manual on and automatic off functionality) with various timeout and activity options. A vacancy only model is also available to meet the California Title 24 Energy Efficiency Standard requirements.

Designed to last 10 years, Radio



5 Radio Powr Savr™ by Lutron Electronics Co., Inc.

Powr Savrs have two replaceable CR 123 lithium batteries and can reduce lighting electricity usage by 25% to 40% in a given space, depending on overall system configuration. The sensors are compatible with Lutron's Maestro Wireless® non-neutral switches, GRAFIK Eye® QS Wireless control units, and the Energi Savr Node™ product family.
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6 A3™ by Spinwave™ Systems, Inc.

A3 is a line of wireless sensors that integrates with virtually any building automation system or monitoring application through open door protocols (BACnet, LON, Modbus) and direct I/O (up to eight sensors are supported per interface through four analog outputs and five digital outputs). It uses patent pending frequency hopping technology to adapt to environments with severe RF interference.

A3 system components consist of wireless sensors and repeaters/routers. Wireless sensors are available in a variety of form factors (e.g. zone, outdoor, duct) with pulse counters for temperature,

humidity, voltage, and submetering. They are typically battery powered, and batteries can last three to eight years, depending on transmission intervals. The mesh repeaters/routers significantly extend the range and node count of wireless sensor networks. They provide alternate wireless communication paths from sensors to other repeaters to RF receiver modules, thus improving the network's ability to cope with obstacles; the network will automatically "heal" and reconfigure itself if a transmission course is obstructed.

A3 includes two tools for deployment. The Site Survey Tool tests the RF link quality and signal strength at desired sensor locations prior to installation, and NetQuest (NQ) software—a commissioning and maintenance tool—allows users to connect a PC to a sensor network, import building floor plans, automatically discover wireless network devices, configure sensors and interfaces, graphically map sensor values to interface objects, monitor and verify sensor data and network status, and document system configurations.

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