

# WEST FIRE AND SAFETY EQUIPMENT

Aguada, Puerto Rico



**[www.cwsifirepr.com](http://www.cwsifirepr.com)**

# **West Fire and Safety Equipment**

## **Puerto Rico Exclusive Distributor**



In the 30 years that we have been manufacturing commercial wireless fire alarms, we have seen a lot of changes. In the 1980s we envisioned a way to duplicate a conventional, fully addressable, hard-wired fire alarm system using wireless technology. The goal was to replicate functions and enhance capabilities which would put wireless technology on an equal platform with its conventional counterparts.

Emerging technologies have allowed us to produce various product lines to meet industry standards and approvals over the years. Although the first generation products appear antiquated today, they supported the field exploration of the wireless concept to bring us to today's CWSI product line.

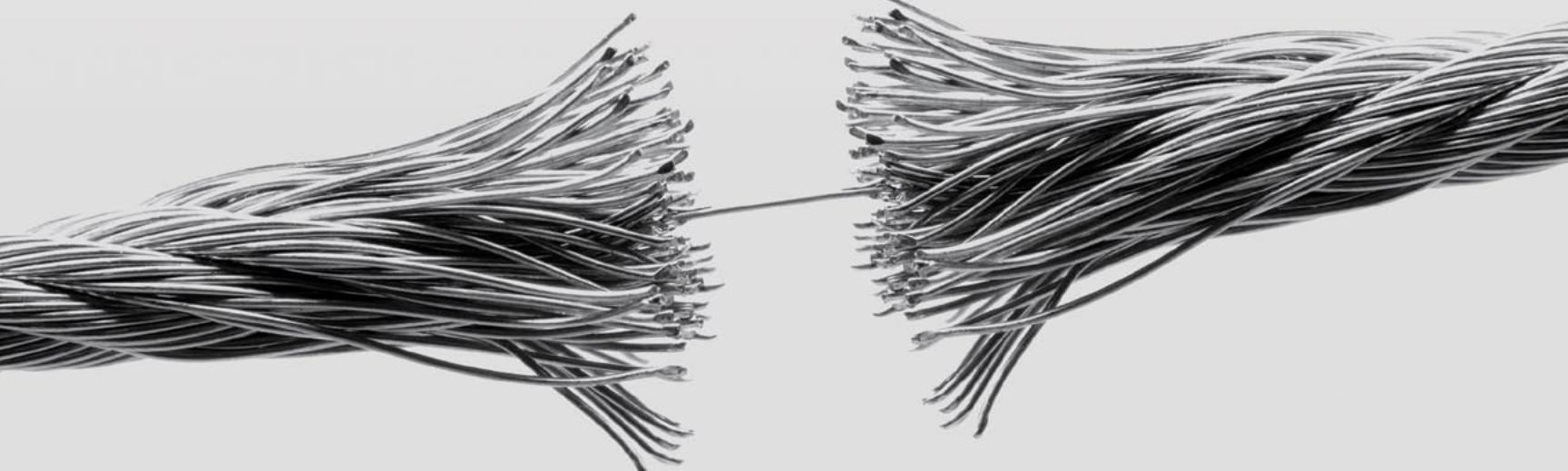
CWSI understands the unique needs of property owners, architects, engineers, fire authorities and installation contractors in our industry. Our management, engineering and sales teams have been involved in the wireless fire alarm arena since it was merely a concept. To date we are the only fire alarm manufacturer that dedicates its efforts to strictly wireless fire alarm technology.

We have seen the multi-family housing industry, hoteliers, the industrial sector, educational facilities and recently even airports begin the transition to wireless fire alarm systems. We are proud to have played a part, bringing wireless fire alarm options to the 21st century throughout the United States, and abroad.

Our uncompromising commitment to excellence, our total dedication to professionalism, and our implementation of cutting edge technologies defines our mission.

The principles that formed our foundation over thirty years ago are the same ones we will continue to build on as we move forward. We look back with pride at all that we have accomplished. Even more, we look forward to the opportunities that lie ahead, serving our dealers, our clients, and our industry.

Scott Barrett,  
President



# CWSI SYSTEM



## The CWSI System

The CWSI wireless fire alarm products offer system versatility like no other. Frequency Hopping Spread Spectrum Technology (FHSS), coupled with Bi-directional RF Communication, Repeater Network Architecture and 200 Second Supervisory Polling, provides for the industry's most secure and reliable wireless fire alarm network.



The **CP-3000A** and **CP-3000DA**, UL Listed 864/1730, will support up to 1024 addressable devices and repeaters while providing true network operation and communication. Network operation includes wireless command signals to repeaters for activation of control functions such as appliance circuits, elevator recall, HVAC control and more. The Control Panels allow for the reporting of up to four separate alarm types and provide for event memory recall of alarm, supervisory and all control functions.



The **WRA-3 Wireless Remote Annunciator**, UL Listed 864 Accessory Device, has a 4 x 20 character backlit LCD which will display alarm and supervisory messages and trouble indication from compatible CWSI panels and devices. Additionally, there are five front panel LEDs for visual indication of A/C power, Alarm, Supervisory, Trouble and Silence. The WRA-3 provides acknowledge, signal silence and system reset control functions via a membrane keypad. Operation of these keypad functions is protected by a key lock.



The **Model AR-3A Repeater**, UL Listed 864 Accessory Device, is an addressable bi-directional repeater which is used to form a cellular reception network which receives, screens, verifies, and retransmits low power radio signals from other CWSI wireless initiating devices, repeaters and control panels. In addition to providing RF signaling within the installation the AR-3A provides supervised addressable NACs.



The **RB Relay Box** is an optional accessory for connection to the AR-5 and AR-3A repeater. It provides up to 40 normally open dry contact outputs. The number of relays corresponds to the model number of the unit for example RB-10 is a ten relay box. The relay box is ideal for interconnection to Dialers, Elevator Recall, HVAC Control, and manufacturer's equipment when other control interfaces are required. These can be ordered in increments of ten relays.



The **Model 310 Manual Fire Alarm Pull Station** is a self contained addressable dual action lexan fire pull station with a built in transmitter. It is UL Listed 38 and complies with ADA requirements of maximum pull force.



The **Model 301/302 Smoke Detectors** are state-of-the-art wireless addressable photoelectric smoke detectors, which incorporate a unique protocol not produced by other manufacturers. The Model 301 is the industry's first addressable, wireless, interconnected tandem smoke detector. In addition to their performance features, the models 301/302 are supervised for low battery, tamper, pre-alarm maintenance, and 200 second polling. The protocol also provides for the industry's first bi-directional communication between the transmitter and smoke detector, allowing for hardware fault supervision of the detector itself. The Models 301/302 are UL Listed 268 for use in both commercial and residential applications and are designed for open area protection.



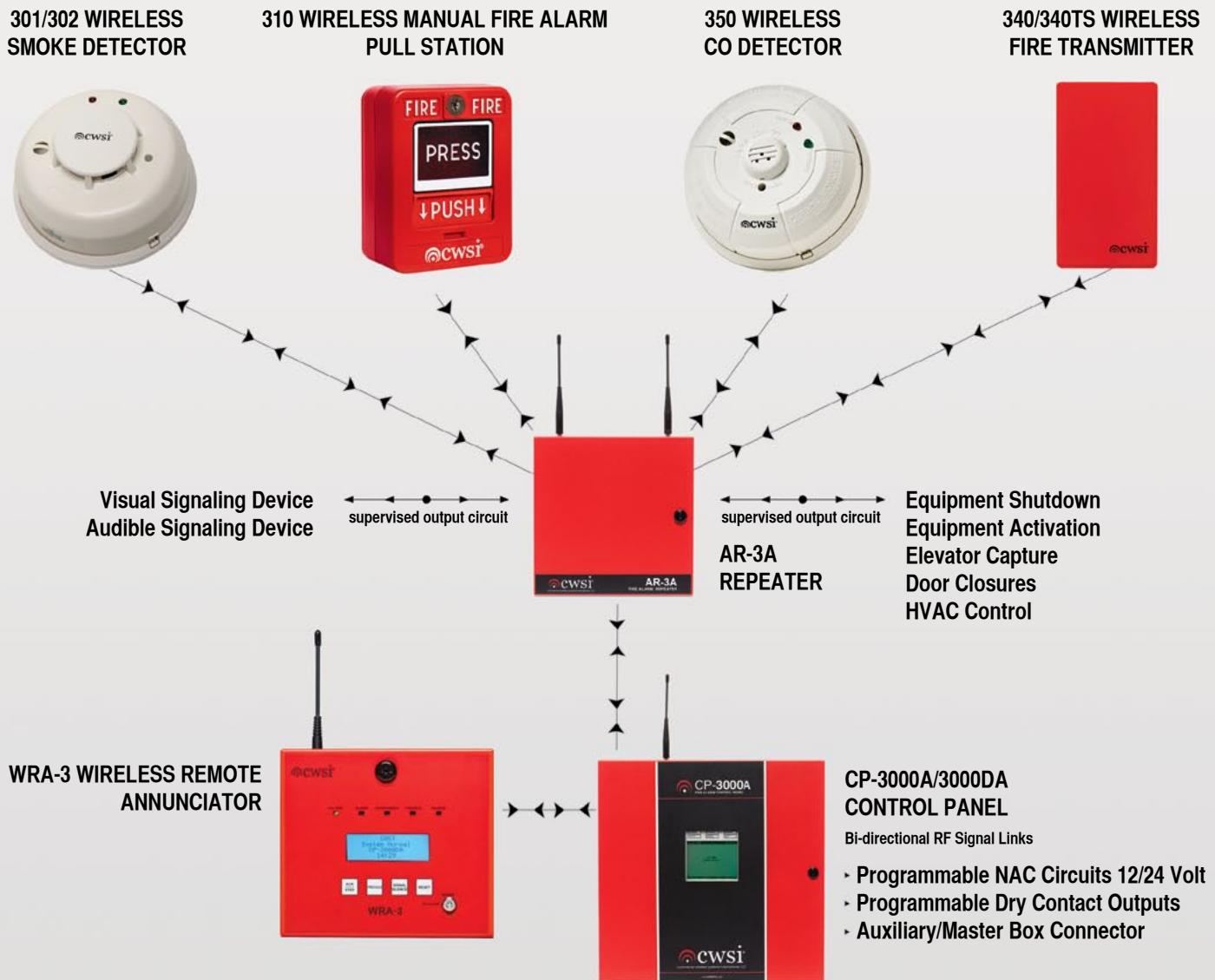
The **Model 340/340TS Fire Transmitters** are addressable transmitters designed specifically for connection to initiating devices, sprinkler flow and supervisory switches, and other UL miscellaneous accessories with normally open contacts. The Model 340/340TS Fire Transmitters are UL Listed 864 Accessory Devices. In addition to the supervisory features such as low battery, tamper, and end of line violation, the Models 340/340TS offer the option of either Style 1 or Style 2 wiring configuration.



The **Model 350 Wireless CO Detector** is a state of the art wireless addressable Carbon Monoxide Detector which provides an internal 85dB temporal 4 horn for CO detector applications requiring signal point audibility and annunciation. The 350 is supervised for low battery, tamper, cell health, chamber end of life and meets 200 second supervisory polling requirements and is UL Listed 2075.

# TECHNOLOGY & PROTOCOLS

## True End-to-End, Fully Addressable Wireless Life Safety Solution



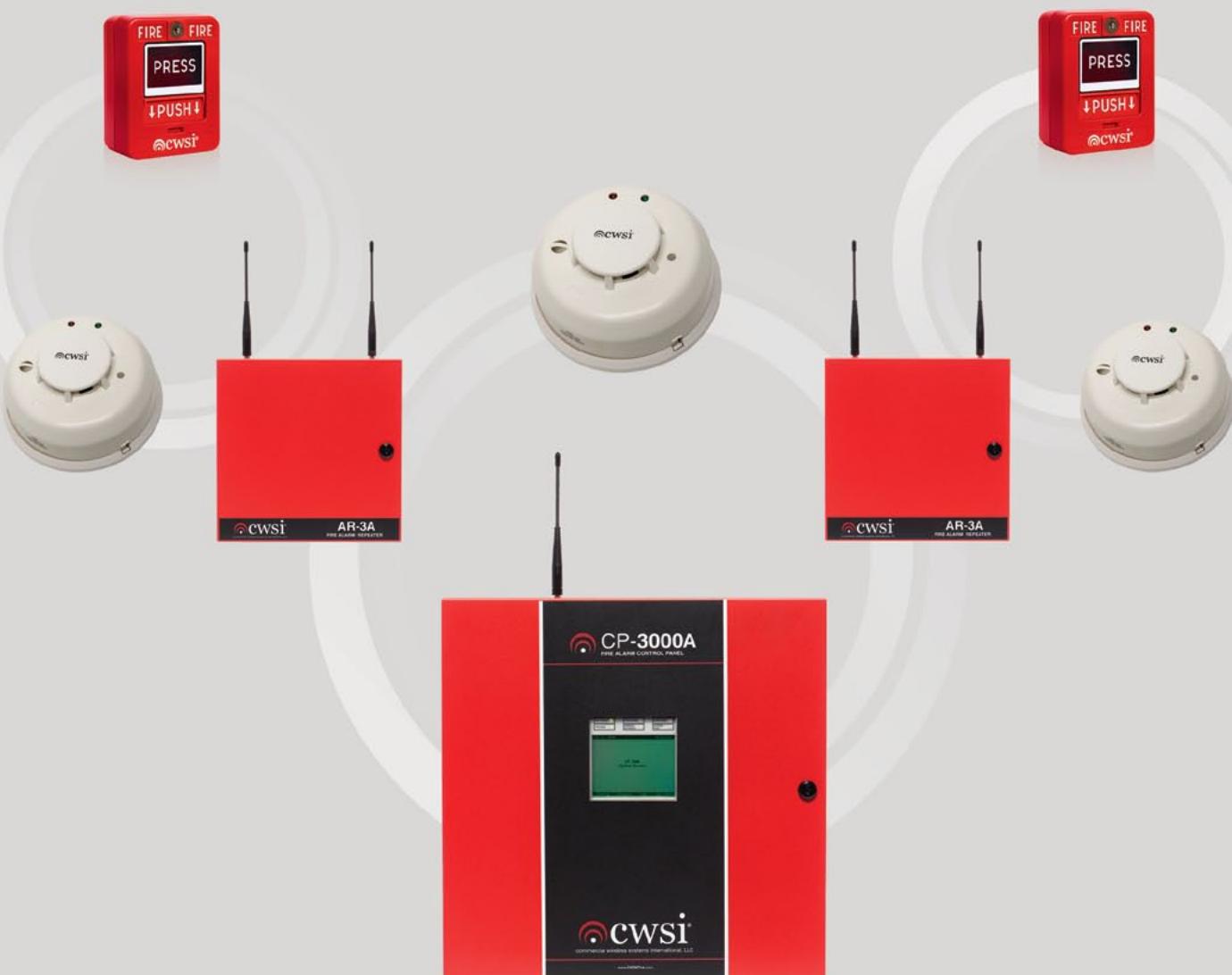
Complies with all National Industry Standards



**NYFD**  
APPROVED

# Frequency Hopping Spread Spectrum (FHSS) Technology

Frequency Hopping Spread Spectrum Technology (FHSS) is the chosen RF Technology used by our military, NASA and other high security organizations requiring the most secure and reliable RF Protocol.



## Advantages

- Intelligent System Scheme
- Two-way Communication
- Maintains Individual Sub Networks
- Self Healing Network
- “Quiet” Operation

## Forms Sub Networks

- Provides Host/Slave Bi-Directional Communications
- Maintains & Communicates Status to its Sub-Networks

## Supervision of System

Any adverse condition on the system is detected and reported to the Control Panel within 200 seconds of such condition being present.

- 200 Second Supervisory Polling
- Tamper
- EOL
- Low Battery
- AC Power Loss
- Hardware Fault
- Smoke Dirty Chamber

# APPLICATIONS

## Hotels

The CWSI System provides many solutions for Hotels with room upgrades required for audible evacuation compliance.

The System can be installed in minutes to interface with existing common area systems, eliminating the need for a total system replacement. Meeting new CO legislation with CWSI's addressable system CO Detectors allows for a reduction of bi-weekly or monthly testing to annual, resulting in a significant cost savings. The CWSI system provides solutions for elevator recall with wireless relay interfaces to elevator controls and wireless smoke detectors at each landing, virtually eliminating all required wiring.

## CWSI Advantages

- Retention of Revenue During Life Safety Upgrades
- Guest Room Wireless Audible Evacuation
- No Down Occupancy
- Minimal Inconvenience to Guests and Staff
- Virtually Eliminate Refurbishing Cost
- ADA Room Solutions
- Seamless Transition in System Replacement
- Eliminates Fire Watch Expense During Retrofit
- Easily Expandable to Meet New Code Requirements
- \$\$ Substantial Cost Savings

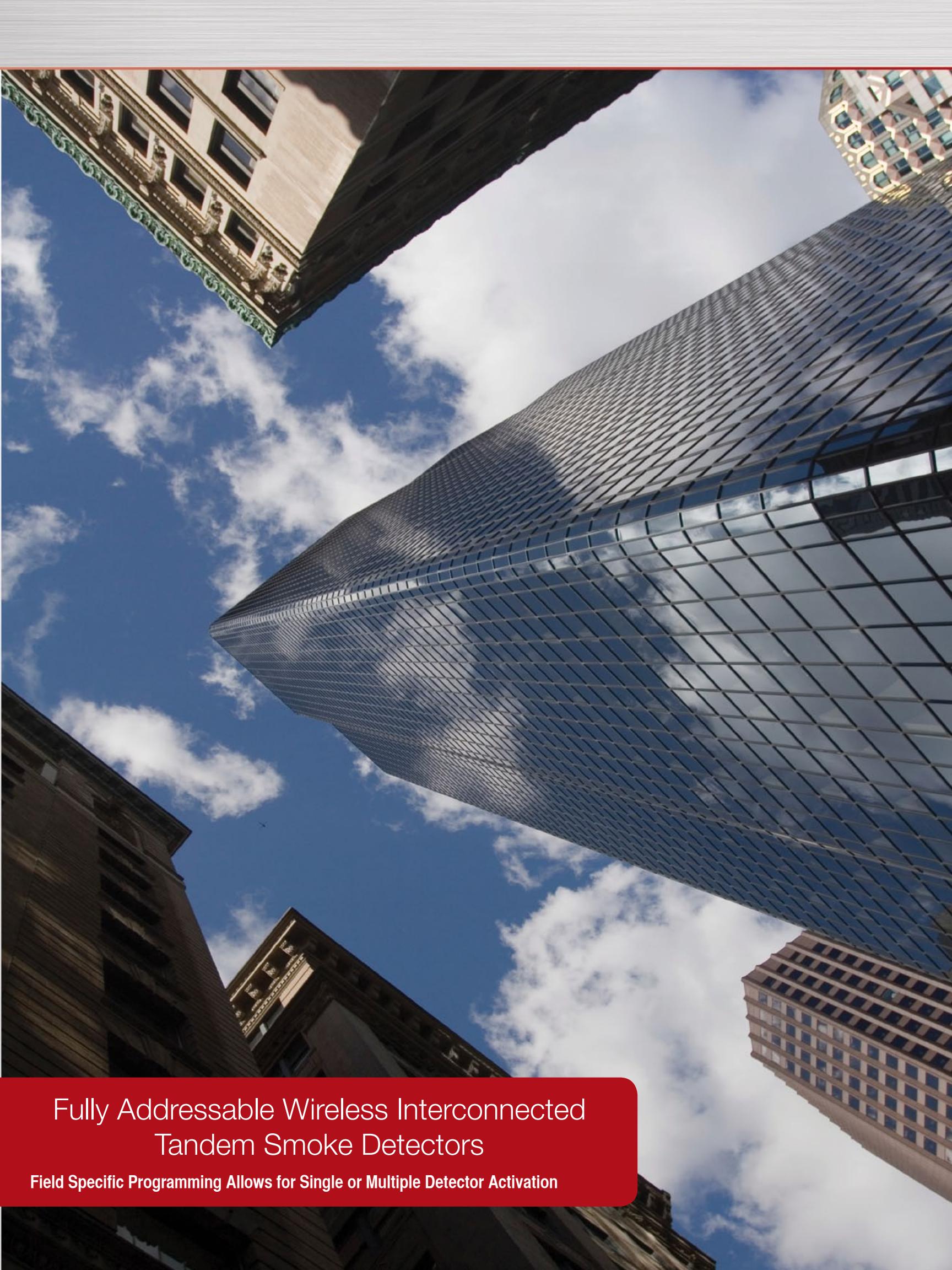
## Hi-Rise

Many jurisdictions are requiring elevator upgrades to the latest code requirements; properties in some cases are forced to bring their entire life safety system up to code. Eliminating materials, labor, refurbishing cost, and the inconvenience to occupants, CWSI provides a rapid and non-invasive installation coupled with substantial cost savings. When in-room audible evacuation compliance is required, CWSI's System can be installed in minutes and interfaced with existing common area systems eliminating the need for a total system replacement.

## CWSI Advantages

- Rapid and Efficient Installation
- Minimal Disruption to Occupants
- Multiple Buildings Interconnected without SLC Loop
- Virtually Eliminates Refurbishing Cost
- Interfaces with Existing Systems





## Fully Addressable Wireless Interconnected Tandem Smoke Detectors

Field Specific Programming Allows for Single or Multiple Detector Activation

# APPLICATIONS

CWSI Interconnects Multiple Buildings Wirelessly

Eliminate Problems Associated with Underground SLC Loops





## Multi-Family & Office Parks

The CWSI System provides solutions for individual monitored accounts by eliminating ongoing costs associated with phone lines, monitored accounts and maintenance; ROI is typically provided in as little as 12 months. Problematic SLC Loops, including damage from lightning, contractor intrusion, and ground faults are eliminated in both new and existing properties.

## CWSI Advantages

- Interconnection of Individual Fire Panels
- Flow/Tamper Monitoring
- Eliminate Individual Monitored Accounts and Phone Line Expense
- Say Goodbye to Ground Faults
- Virtually Impervious to Lightning
- Reduction of Annual Maintenance Expenditures



Virtually Impervious to Lightning Damage



## Colleges & Universities & K-12 Schools

With the only commercially listed, addressable wireless interconnected tandem smoke detectors, as well as our system CO detectors, CWSI provides economic alternatives to conventional systems in applications such as campus buildings, dormitories, off-campus housing and more. As CO legislation becomes more prevalent, the CWSI addressable wireless system CO detector requires only annual testing, versus the bi-weekly or monthly testing required with battery-operated, stand alone or electrically powered CO detectors. Our addressable, interconnected, wireless tandem smoke detectors allow for detection and local evacuation, meeting decibel code requirements in sleeping areas.

In K-12 School applications CWSI provides the perfect solution for interconnection of remote portables to the main building fire alarm system as well as interaction of the main building back to the portables.

### CWSI Advantages

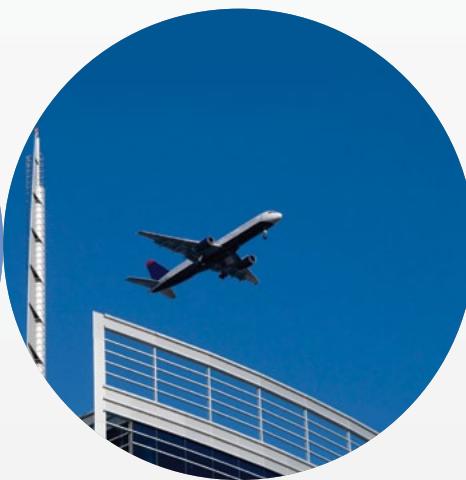
- System CO Solution for Legislation Mandates
- Addressable Tandem Interconnected Smoke Defectors
- Solutions for New Construction and Building Expansions
- Interconnection of Multiple Buildings
- Ease of Installation Allows for Retrofits During School Breaks
- Historic Renovations





## Unique & Private Sector

The versatility of the CWSI System allows for communication and reporting needs beyond just fire. The simple addition of a monitoring module to any normally open, dry contact device provides for addressable communication to the control unit. Examples of alternative reporting types provided by the CWSI System include accident and emergency for emergency eye wash stations, environmental solutions including monitoring water levels, and boilers, temporary and portable applications, remote fueling stations, and process monitoring.



## Historic

Historic structures present unique design and installation challenges due primarily to the required preservation of the original landscape and aesthetics. CWSI allows for non-invasive installation, thus maintaining the structure's original façade. Concerns such as exposed wire mold and conduit, matching of original décor, asbestos, paint, patching, etc. are eliminated. Examples include national landmarks, museums, state and federal buildings, bed and breakfast, university and college structures, churches, and more.

## CWSI Advantages

- Non Obtrusive Installation
- Aesthetics Preserved
- Eliminate Unsightly Wire Mold and Conduit
- No Patching or Refurbishing
- No Asbestos Abatement



# APPLICATIONS

## Industrial

The CWSI UL Listed and FM Approved product line provides a multitude of detection and protection in the industrial market. Insurance mandates such as electronic monitoring of flow, tamper, and PIVs are accomplished with the simple addition of a wireless monitoring module eliminating all rigid conduit and wiring that would otherwise be required in a conventional system. Monitoring equipment and process control, plant evacuation systems, MCC rooms, intrinsically safe alternatives, remote pump house monitoring and control are accomplished in a fraction of the time with considerable cost savings. The ease of installation allows the facility to continue operations during a life safety renovation, eliminating revenue lost due to downed or interrupted operations.

## CWSI Advantages

- Complete Automatic Fire Alarm
- Flow/Tamper & PIV Monitoring
- Minimal Disruption to Plant Operations
- Multiple Emergency Types on a Single Panel
- No Underground Trenching for Multiple Building Interconnects



Technology Re-Invented.

Proven. Secure. Reliable.



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