

PROTECTWELL



***PTW-4000***

***Series***



# COMPANY OVERVIEW

PROTECTWELL is a company with strong values and passion to innovate and lead the change in the fire alarm industry. It has been a local industry leader for fire protection for nearly 16 years, with over 350 employees throughout China and Asia Pacific region to ensure providing the flexibility and supports your business needs. PROTECTWELL is ISO-9001 certified company - the highest recognition in engineering and manufacturing. Our products standard comply international approvals, including UL, FM, EN54, CCCF, where applicable.

We thrive on the power and potential of diversity, continue reinvest research and development, manufacture high quality products, establish overseas market coverage, offer exceptional customer service and industry-leading solutions.

*Care For Your Life and Safety!*

“  
**The Most Versatile  
& Powerful Systems  
in the Industry**”



PTW-4000 Series is a 'next generation' modular network system that is designed for the most demanding fire protection and emergency communications applications.

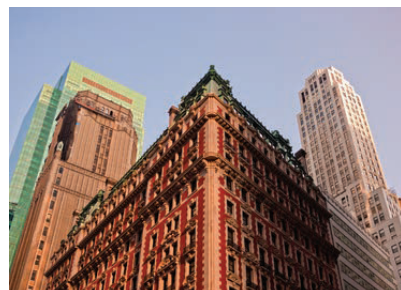
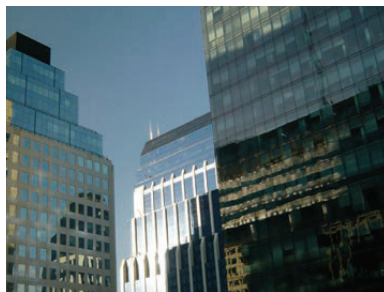
The PTW-4000 Series introduces an impressive new range of system configurations, including a wide array of cabinets and sizes for control and annunciation requirements.

# APPLICATIONS

## Complete Building System Integration

PTW-4000 Series not only integrates all sub-systems, including fire detection & alarm, audio/voice evacuation and HVAC/damper control, it is also designed with built-in BACnet support for seamless integration with Building Management Systems (BMS).

PTW-4000 eliminates the need for expensive adder modules, required by other systems, and supports both digital and analog input/output devices.



PTW-4000 Series is built to meet the latest building code requirements and offers an extensive range of panels, modules and devices for any upgrade or new construction project.

- Commercial Towers
- Hospitals
- University/Corporate Campuses
- Large Hotels
- Large Shopping Malls
- Military Facilities
- High-Rise Residential
- Transportation
- Correctional Facilities
- Manufacturing Facilities
- Distribution Centers

# ENHANCED INTELLIGENT NETWORK MONITORING & CONTROL

## Unparalleled Modular System Design

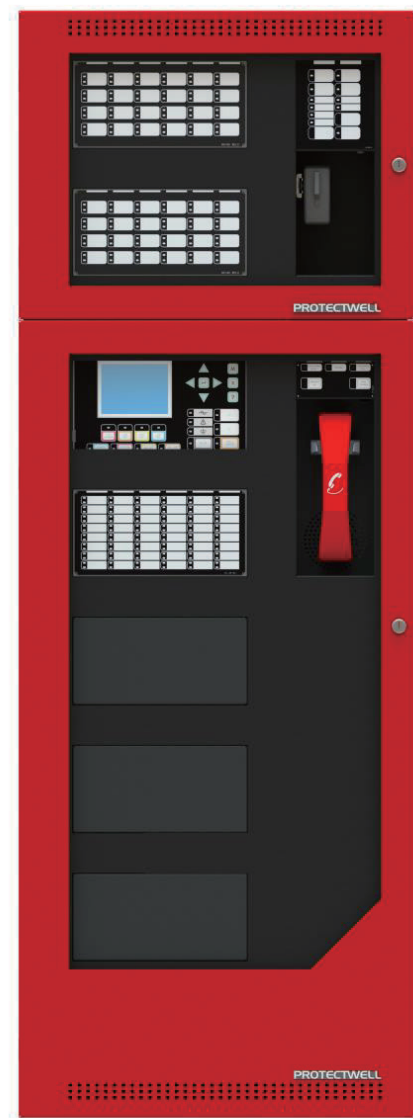
PTW-4000 Series modular design provides almost limitless freedom to configure local, group and global control, notification and annunciation where it is needed – including the ability to configure up to 7 LCD display/ control chassis in a single node.

PTW-4000 unique system architecture provides market-leading performance and economy in the widest range of different system configurations:

- Addressable fire detection system
- Addressable fire detection and audio system
- Network notification system
- Network fire detection and audio system
- PTW-4000 Devices
- Up to 63 system nodes with over 50,000 watts of power
- Peer-to-peer network communications
- One-man and Assisted Walk test
- Digital Audio and Telephone bus over shared network cable
- Synchronized evacuation zone signaling
- Voice message priority according to risk analysis and emergency response plan
- Visual notification and strobes appliance support
- Public Address/Voice Address (PAVA) system
- Job File Management system capable of storing up to 3 separate configuration files
- Single point software & configuration network broadcast capability with zero life safety down time

## Designed to Meet the Latest Codes and Standards

PTW-4000 complies with the latest fire codes and standards, for control units (listed with UL 864, 10th Edition) and installation (NFPA).



# CLEAR ANNUNCIATION GRAPHIC MONITORING & CONTROL

In addition to the widest selection of LED & LCD annunciators, PTW-4000 is also supported by Open Graphic Navigator, an advanced 3D graphic software system that takes system monitoring and emergency response to a whole new level.

## Enhanced Life and Property Protection

- Complete flexibility to display custom floor plans and graphic symbols
- Custom event messaging

## Secure System Configuration/Maintenance

- 3D floor plan graphic user interface
- Import system configuration files without taking system off-line
- Easy device symbol placement on floor plans

## Advanced Monitoring and Control

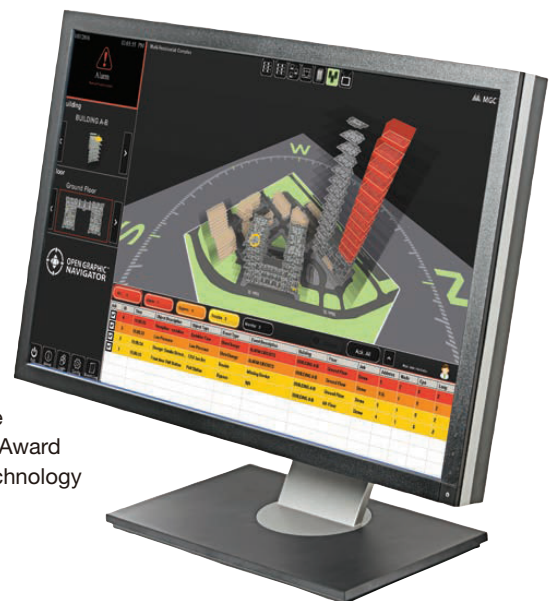
- Real time annunciation of system status
- Annunciation of up to 1000 simultaneous system events
- Extensive event logging with custom reporting

## Custom Graphics

- Support for .png or .svg floor plan files
- Select preconfigured or import custom symbols
- Point-and-Click device symbol placement
- Custom event response messages

## Intuitive User Interface

- Color-coded event queues
- Clean, easy-to-read system status widget
- Easy to navigate facility using building and floor slider widgets
- Detailed (vector based) 3D building graphics



Winner of the  
Edison Gold Award  
for Smart Technology



# SUPERIOR PERFORMANCE FOR ALL STAKEHOLDERS – TODAY & TOMORROW

The Protectwell PTW-4000 system with Mass Notification functionality was carefully designed with the specialized needs of five key stakeholder groups in mind:

## Building Staff & Fire Department Operators

**Simplicity** *Easy to use, intuitive to operate.*

- Advanced control, including 'Warden Page' that integrates remote firefighter phones with audio/evacuation speakers network wide
- Plain language' XML based system reports
- Firmware upgradeable to ensure that the system is always up-to-date
- Equipped with system diagnostic tools to assist service staff



**Intelligibility** *Clear, easy-to-understand instructions, pre-recorded or in real time.*

- True multi-channel audio allows each node to support up to three unique alarm and alert tones
- Multiple displays in every MNS cabinet for distinguishing between Fire Detection and Mass Notification Events
- Clear and easy to understand text or graphic display of system events

## Owners & Property Managers

**Expandability** *Modular design enables you to grow your network in size and/or functionality.*

- Up to 63 nodes with a capacity for over 5,000 I/O points per node, supporting over 250,000 points on a single network
- Support for multi and single mode fiber
- Supports up to 240 addressable PTW-4000 devices per SLC



**Affordability** *PTW-4000 offers the ability to combine Fire Detection and Mass Notification functionality to realize cost savings.*

- Up to 7 display and control chassis per node, including local, group or global control
- Designed to support both conventional and intelligent detection for retrofit applications
- Unique system architecture provides additional cost savings system cost

**Accessibility** *PTW-4000 is supported abroad by a world-wide network of Authorized Distributors that offer the best competitive value in the industry.*

- Factory-trained and accredited installation and service technicians
- Local sales, service and repair parts centers ensure the best support for your system

## Engineering & Fire Consultants

### **Survivability** *Network redundancy – no single point of failure.*

- True 'Peer to Peer' network configuration ensures survivability of the system
- Up to 15 coordinated Digital Signal Processors per node
- Synchronized audio signaling across nodes allows multiple nodes to control common areas

### **Flexibility** *Intelligent network with seamless integration with Building Management Systems.*

- Sophisticated Boolean logic with built-in, configurable timers with interval and scheduling to support complex smoke control functions
- Support of hardwire circuits to uniquely support retrofit applications
- Fully digital system network utilizing 1 twisted pair conductors or fiber optic cable for both control and audio
- New Local Operating Console (LOC) supports fully integrated paging and emergency audio and firefighter telephones
- Annunciators do not decrease node capacity

### **Versatility** *Supports a wide array of signaling and detection system modules.*

- Offers a wide array of control and annunciation modules
- Support including smoke detection, heat detection, multi-criteria sensors, variable analog input modules and monitoring of gas and environmental sensors
- Digitized voice messages utilizing custom .wav file format

## Dealers & Distributors

### **Continuity** *One of the largest independent fire solutions provider.*

- Over 30 years of experience in providing new innovation and value in fire detection
- Systems proven through an extensive portfolio of projects in over 100 countries around the world
- Regional offices in USA, Hong Kong, Singapore, Malaysia and China provide support throughout all phases of the project

### **Reliability** *Manufactured in North America, products have among the lowest warranty claims in the industry.*

- PTW-4000 systems are built based on proven system components in over a thousand installations, worldwide
- Protectwell has built its reputation on exceptional service, from initial design, to trouble-free installation, and after-sale technical support

## On-site Maintenance Staff & Technicians

### **Serviceability** *Intuitive to install, program, and service; Backed-up with exceptional technical support.*

- 'State of the Art' system software stores up to 3 configurations at one time, simplifying loading and program testing
- Service technicians have the ability to load software from one node to the entire network without taking any panel off-line
- Expanded system event reporting from a large front panel LCD display eliminates the need for a service computer
- Ethernet port provides web server system access for both local and remote reporting and diagnostics
- No additional hardware required





# SYSTEM COMPONENTS

## FIRE DETECTION AND AUDIO

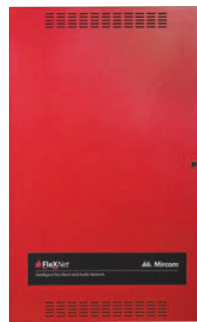
Powerful intelligent networkable fire alarm solution designed with flexibility to meet virtually any application of detection, control, notification and emergency communications, and will fit into most spaces with any of our compatible enclosures.



PTW-4000MNS

### MNS Command Center and Audio Network Node

Expandable to 20 Intelligent Signaling Line Circuits (SLC) with paging, telephone and allows for up to 180 watts per panel.



QBB-5001R

### Audio Expansion Panel

Provides up to three audio expansion panels for an additional 1,080 watts of audio per node.



FX-LOCR

### Local Operating Console

Expandable to 7 Local Operating Consoles per panel. Annunciator consoles do not decrease node capacity.

## FIRE DETECTION & ALARM PANELS

Designed for peer-to-peer network communications, the various PTW-4000 network panels allow for a maximum of 63 nodes, while providing reliability, flexibility and expandability.



PTW-4003NML

### Compact Network Panel

Expandable up to 8 Intelligent Signaling Line Circuits (SLC).



PTW-4009NML

### Mid to Large-Size Network Panel

Expandable up to 28 Intelligent Signaling Line Circuits (SLC).



PTW-4000MNS

### Mass Notification Network Panel

Expandable up to 20 Intelligent Signaling Line Circuits (SLC).

## SYSTEM MODULES

The PTW-4000 intelligent network system has the most extensive range of system modules, detection devices and signaling appliances available. More than an advanced network system, PTW-4000 delivers a complete project solution with the support of over one hundred advanced, proven and affordable Protectwell fire detection modules.



### Auxiliary/Accessories

Including system accessory modules, power supplies, batteries, line modules, digital communicators, devices and device accessories.

### Signaling

A wide selection of indoor and outdoor speakers and speaker/ strobes to supply the best notification and evacuation for any application.



### Detection

Advanced smoke, heat and multi-technology sensors in standard and specialty detector configurations.

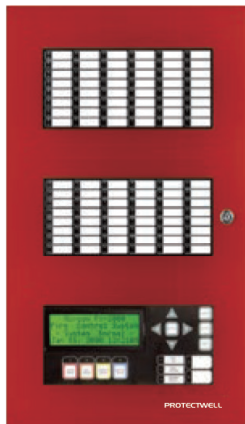


### Manual Stations

Variety of high quality, die-cast metal manual stations are available to provide manual fire reporting.

## ANNUNCIATORS

The PTW-4000 network annunciators connect to any node and can announce the full network system or selected network nodes.



PBB-1003DR



### Intelligent LCD Network Annunciator

Supports several network annunciators that provide the same functions as the main display on the fire alarm control panel.

### Open Graphic Navigator Software

Open Graphic Navigator is a centralized building management system that provides real-time local or remote monitoring.



**THIS INFORMATION IS FOR MARKETING PURPOSES ONLY AND NOT INTENDED TO DESCRIBE THE PRODUCTS TECHNICALLY.**

For complete and accurate technical information relating to performance, installation, testing and certification, refer to technical literature.

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