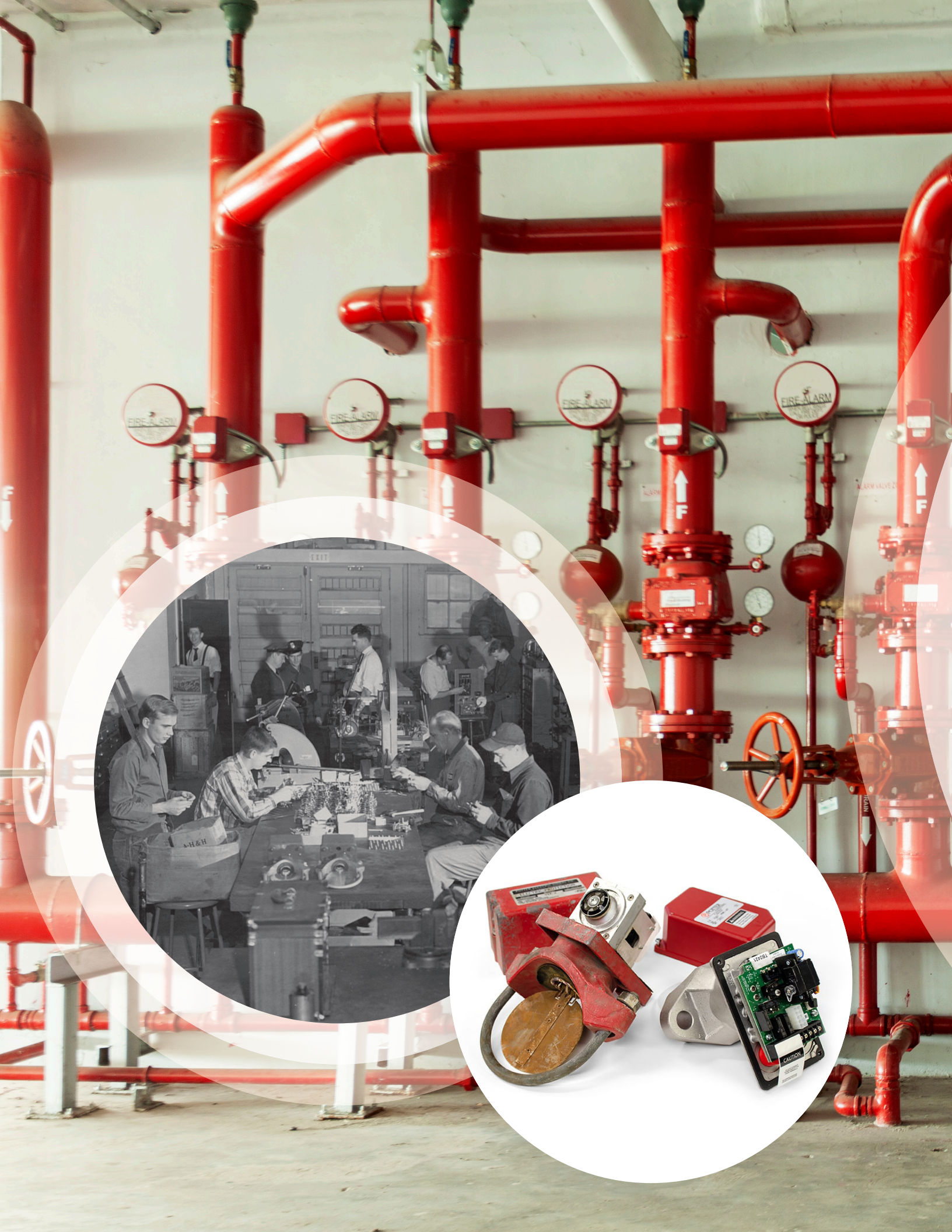




# Fire Sprinkler New Product Innovations









# Potter: Innovation from the Beginning

For over 125 years, Potter Electric Signal Company has been a pioneer in developing products that protect property and life. This innovative approach began in 1898 when Charles E. Potter developed products that sent electronically coded signals to a central monitoring station. This allowed fire and police officials to be instantly dispatched to any fire or security emergency. By 1920, Potter was utilizing customized products and monitoring them with the latest telecommunications equipment. In a time when human initiative was the most valuable industrial commodity, Charles Potter was able to combine state-of-the-art equipment with a dedicated workforce to provide St. Louis with the best night watchmen service in the metropolitan area.

As the century continued, Potter's central station business became the basis for the development of sprinkler supervisory devices, switches for intrusion protection, vault and safe protection systems, and fire control panels.

Today, Potter continues to innovate by combining the latest technology in fire protection with the dedicated workforce for which we have been known for over one hundred years. With an unwavering dedication to our customers and products that are assembled in the USA, Potter looks to continue as the industry standard in both product innovation and service. We are "The Symbol of Protection."



## Designed & Assembled in the USA /

U.S. workers keep us going! We are proud to use union labor to build products at our main production facility in St. Louis, MO. With engineering teams located in Minnesota, Illinois, and Kentucky, Potter continues to provide the latest innovations direct from America's heartland.

# ATPS /

## Auto-Test Pressure Switch

The Auto-Test Pressure Switch (ATPS) is a groundbreaking innovation that automates the testing of fire sprinkler system pressures, ensuring faster, safer, and more accurate inspections. By reducing human error and simplifying compliance with safety regulations, the ATPS provides real-time monitoring, giving building owners and contractors peace of mind that their systems are always ready and operational.



### Features & Benefits



#### Automated Pressure Testing /

Experience the convenience of testing in seconds—not hours. With the press of a button, effortlessly conduct both high and low supervisory pressure and alarm switch testing. Streamline your testing, saving valuable time, and minimize the risk of errors—all in one easy step!



#### Enhanced Safety & Compliance /

By automating critical tests, the ATPS ensures compliance with fire safety regulations and reduces the risk of system failures, particularly in high-stakes environments like data centers, cold storage, museums, and libraries.



#### Easy Integration & Installation /

Easily connects to the valve trim replacing the alarm and supervisory switches and can be mounted on a wall or riser for a seamless installation.



#### Adaptable & Customizable /

Supports various system types, including dry, pre-action, deluge, and wet systems.

### Who Benefits from Automated Testing?



#### Contractors /

Save time on site visits with automated testing, minimizing risk and ensuring dependable performance for clients.



#### Building Owners & Facility Managers /

Peace of mind from automated, consistent testing that ensures system readiness. Avoid the risk and damage associated with system trips.



#### Specifying Engineers /

Dependable, adaptable technology that simplifies the design and maintenance of fire safety systems, with verified compliance for safer operations.



# How the Auto-Test Pressure Switch Works

The ATPS uses an automated testing cycle that accurately tests both high and low supervisory pressure limits and alarm indicating capability with an option to perform tests on-site or at the panel. This prevents common issues in manual testing—like accidental water discharge, by providing precise, repeatable results with a reduced risk of errors.

## Step-by-Step Testing Process:



### Initiate Testing /

Tests can be initiated at the device or remotely at the panel using the optional auto test control model ATC-1 or ATC-4, making it easy to conduct regular checks.



### Automated Testing /

The system physically exercises the necessary components, ensuring proper operation without risking changes in system pressure, while being UL & FM certified and conforming to NFPA 25 requirements.



### Digital Monitoring /

High-accuracy, digital pressure transducer performs automated, dependable tests, reducing errors and ensuring compliance with NFPA testing and alarm requirements.



### Test Completion /

Confirms results within seconds, ensuring dependable outcomes without triggering system activations.

## Why Choose the Auto-Test Pressure Switch?



### Reduce Downtime & Enhance Efficiency /

Automated testing decreases the time needed for testing, letting contractors manage more sites efficiently with less time spent at each.



### Minimize System Failure Risk /

With monitoring made simple, ATPS reduces the likelihood of undetected issues that could lead to system failure, keeping facilities safe and compliant.



### Cost-Effective Compliance /

Avoids the costs of frequent manual tests and system resets, offering long-term savings and lower labor costs for building managers and contractors.

## Ordering Information:

Model	Description	Part #
ATPS	Auto-Test Pressure Switch	1341500
ATC-1	Single Zone Test Control	1000221
ATC-4	Four Zone Test Control	1000224

For more information, visit:

[pttr.us/ATPS](https://pttr.us/ATPS)



The Auto-Test Pressure Switch is part of our Auto-ITM product line, designed to automate critical inspection, testing, and maintenance procedures for fire sprinkler systems.

For more information, visit: [pttr.us/Auto-ITM](https://pttr.us/Auto-ITM)



# CoilKeeper™ /

## Solenoid Supervisory Switch

Potter's CoilKeeper Supervisory Switch is designed to supervise the position of a coil on a solenoid for a preaction/deluge system as required by NFPA 13 (8.3.1.2.1). The unit monitors the coil electronically and determines if the coil is installed on the valve stem. If a technician removes the actuator from the stem, the CoilKeeper will activate a normally open set of dry contacts that can be wired to a supervisory circuit of the releasing control panel.

## Details

Part # CoilKeeper Solenoid Supervisory Switch: 1010500  
Listings UL Listed, CE

## Code Requirements

Satisfies NFPA 13-2019 requirement for Actuator Supervision (8.3.1.2.1).

**8.3.1.2.1 Actuator Supervision.** Effective January 1, 2021, removal of an electric actuator from the preaction or deluge valve that it controls shall result in an audible and visual indication of system impairment at the system releasing control panel.<sup>1</sup>

## Common Questions

**Q: Does the CoilKeeper work with any releasing solenoid?**

A: CoilKeeper has been tested by UL to be compatible with most releasing solenoids. See document 5401607 for the complete list of compatible solenoids.

**Q: Can the CoilKeeper connect to any fire panel or releasing panel?**

A: Yes. There is no panel compatibility listing requirement.

For more information, visit:

[pttr.us/coilkeeper](http://pttr.us/coilkeeper)



<sup>1</sup> NFPA® 13, "Standard for the Installation of Sprinkler Systems", 2019 edition, Copyright © 2018, National Fire Protection Association®



Valve not included

Patents Pending

- ✓ Provides confirmation of coil/actuator placement
- ✓ Provides visual indication of coil/actuator status
- ✓ Detects open or shorted coils
- ✓ Detects coils/actuators not installed on solenoid
- ✓ Mounts locally on solenoid or remotely

## Ordering Information

Model	Description	Part #
CoilKeeper	Solenoid Supervisory Switch	1010500



# Operation

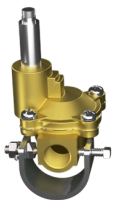
## Coil Properly Installed

When the coil is properly installed, pressing reset on the CoilKeeper will clear any previous supervisory signals and the CoilKeeper will indicate a normal state.



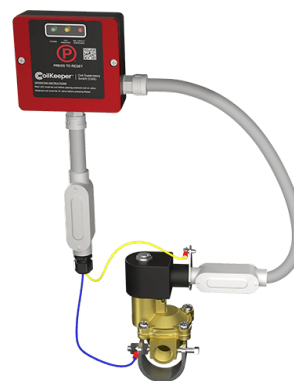
## Coil Improperly Installed

If the coil is improperly installed, continuity or inductance tests will fail, resulting in a supervisory state. Ensure coil is properly installed on the solenoid body following the manufacturer's instructions to clear supervisory state.



## Coil Missing

The CoilKeeper will also go into a supervisory state if the coil is completely removed. The CoilKeeper latches and requires the coil to be properly installed and CoilKeeper reset to clear the supervisory signal.



## Remote Installation

In addition to direct installation onto the solenoid, the CoilKeeper can be remotely mounted wherever convenient. Wires attach to the included sense bracket and clamp to complete a circuit through the coil.





# SignalLink™ Bridge /

## Wireless Supervisory System

The SignalLink Bridge can monitor any dry-contact switch such as tamper or flow switches and transmit their status wirelessly to any fire alarm panel. The SignalLink Bridge uses a wireless transmitter, installed with the switch being monitored, and a wireless receiver, installed with the fire alarm panel, to fully monitor the switch's state.

### Common Questions

**Q: Can a receiver be paired to multiple transmitters?**

A: No. Each transmitter must be paired to a single receiver. If repeaters are needed to extend coverage, repeaters must be also paired to that receiver.

**Q: How many repeaters can be used to extend the range of the SignalLink Bridge?**

A: A maximum of 3 repeaters may be used with a transmitter/receiver pair.

**Q: What is the range of the SignalLink Bridge?**

A: Maximum clear line-of-sight communication is approximately 800 feet between devices. Nearby metal objects can greatly reduce signal strength.

**Q: Can the receiver connect to any fire panel or releasing panel?**

A: Yes. The receiver output is a dry contact, there is no panel compatibility listing requirement.

### Ordering Information

Model	Description	Part #
WSS	SignalLink Wireless Kit (WRX-R + WTX-M)	3008040
WRX-R	SignalLink Wireless Receiver	3008020
WTX-M	SignalLink Wireless Transmitter	3008001
WR	SignalLink Wireless Repeater	3008030
WST	SignalLink Wireless Setup Tool	3998000



- ✓ Compatible with any dry-contact switch
- ✓ Compatible with any fire alarm panel
- ✓ Eliminates trenching parking lots
- ✓ Ideal for temporary systems during construction
- ✓ Supervises wiring to connected devices
- ✓ 2.4 GHz band and repeaters for long range operation
- ✓ Setup Tool for assisting install and troubleshooting

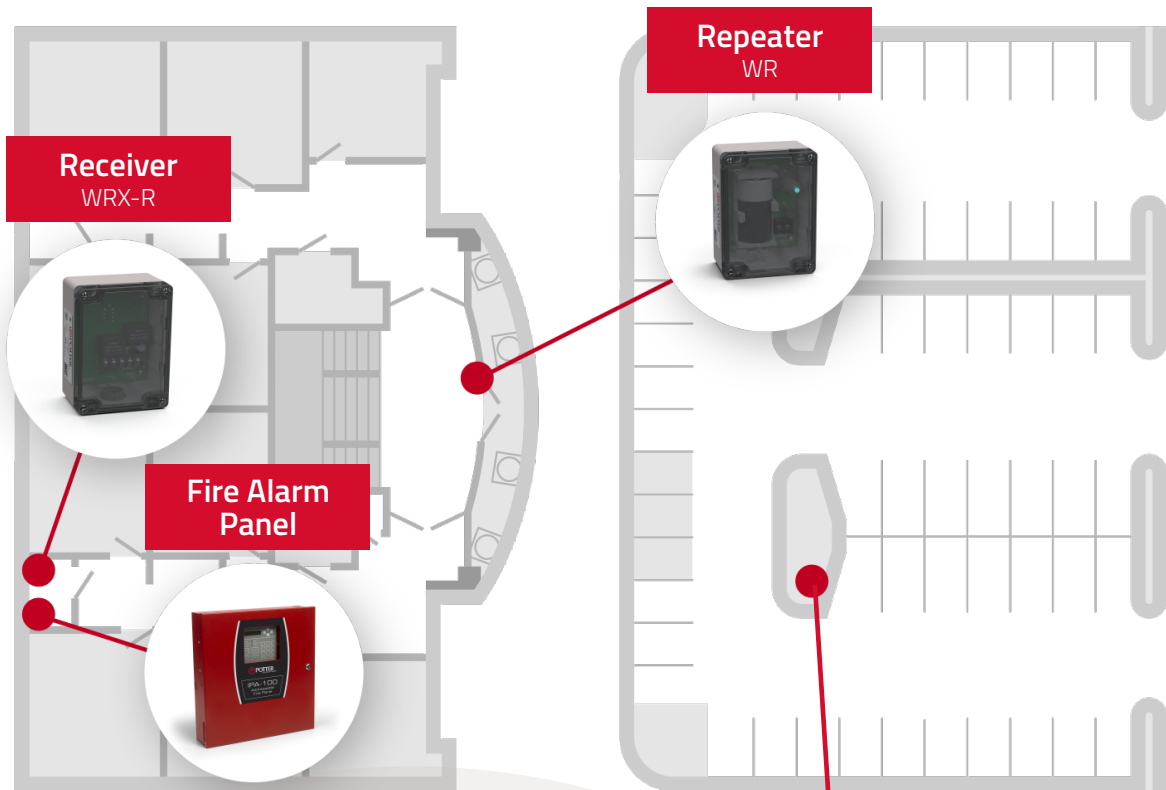
For more information, visit:

[pttr.us/signalink](http://pttr.us/signalink)





# Typical Application



## PFC-4410G3 /

### Releasing Control Panel

The Potter Model PFC-4410G3 is a conventional multi-hazard releasing control panel well suited for a number of applications. The PFC-4410G3 is listed for use with pre-action and deluge sprinkler suppression systems and agent-based fire suppression systems.

The panel utilizes a microprocessor-based system that has up to 35 standard programs in panel memory, which covers a majority of installations. The simple to follow Menu Structure programs the entire system in a matter of seconds. In addition to the Standard Programs, the panel allows custom programming to accommodate any installation. Programming is accomplished either through the menu driven on-board controls or from a laptop via the Ethernet connection.

The PFC-4410G3 is housed in a red durable steel cabinet with removable door and key lock. An optional flush mount trim ring is available. The cabinet contains knockouts on the side, back and top of the cabinet to ease installation. In addition, the cabinet will house up to two (2) twelve (12) amp-hour batteries that will provide in excess of 90 hours of standby power.



- ✓ **Hassle Free Installation**
- ✓ **Full Deadfront with Hook System**
- ✓ **Optional Disable Switch**
- ✓ **Remote Management via Email**
- ✓ **Flexible Programming**
- ✓ **P-Link Circuit Intelligent Accessories**

## Ordering Information

Model	Description	Part #
PFC-4410G3	7 Zone Releasing Control Panel (Red Cabinet)	3006735
LED-4410G3	16 LED Annunciator	3006743
PSN-1000	10 Amp Intelligent Power Supply	3992662
CA-4064	Class A NAC and P-Link Module	3992361

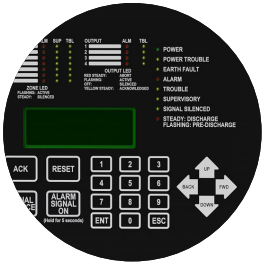
For more information, visit:

[pttr.us/4410G3](http://pttr.us/4410G3)



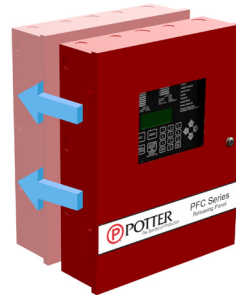


# Expanded Feature Set



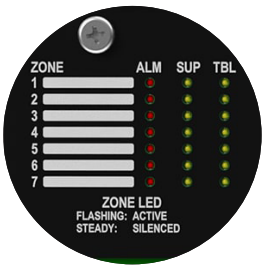
## ✓ Intuitive User Interface

The PFC-4410G3 Releasing Panel has been revamped to provide an intuitive user interface. Some of these upgrades include a 30% larger display, multidirectional navigation, an expanded history that holds up to 4,000 events, keypad programmability, and the ability to program using a computer.



## ✓ Hassle Free Installation

Potter's PFC-4410G3 was designed for an effortless transition from installations using the previous model. The PFC-4410G3's housing retains all the same wiring terminations and footprint allowing for the layout to be preserved, all while utilizing the same common conduit locations. Features a full deadfront with hook system that allows it to be hung from the enclosure during installation and servicing.



## ✓ User Definable Zones

Potter's PFC-4410G3 Releasing Panel features seven zones that are user definable. This is an increase of three additional user definable zones that grant greater user customization from the previous generation.



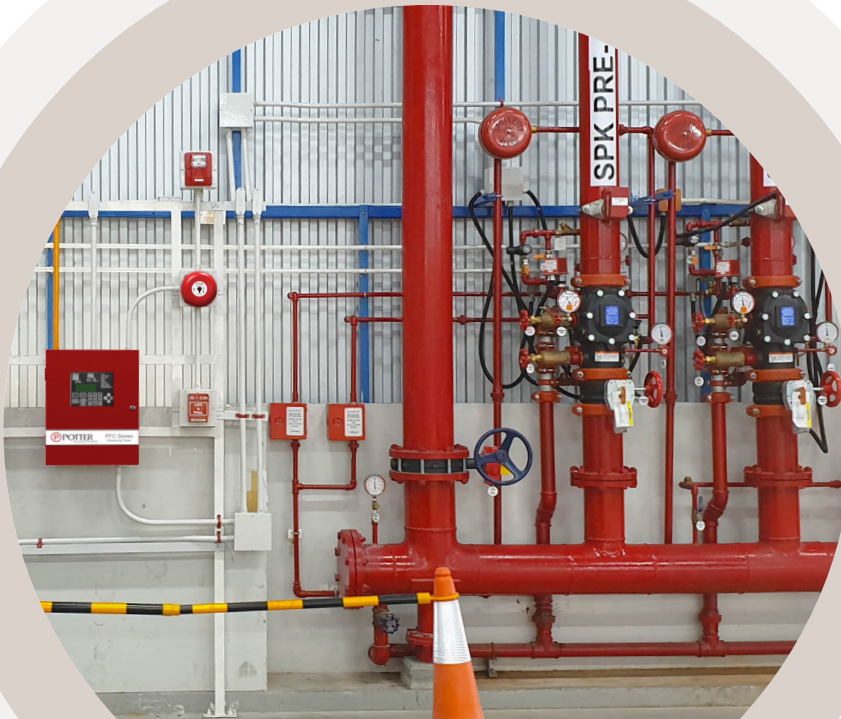
## ✓ Built-in Notification Appliance Patterns and Synchronization

Synchronization across multiple brands without a separate module. Notification patterns allow the same notification appliance to annunciate different parts of the releasing sequence uniquely.



## ✓ Increased Power Resources

The PFC-4410G3 has increased the total panel output from a maximum output of 2.5 A to 3.0 A. The output circuits can use the full power of the panel with a maximum output of 3.0 A per output which is increased from the previous 1.0 A.



# Advanced AMD /

## Advanced Air Maintenance Device

To keep supervisory nitrogen or air pressure at the correct level in dry and preaction sprinkler systems. Also used for the same purpose in the dry pilot line of a dry pilot actuated deluge valve.

### Details

Part # NAMD: 1119660

Listings UL/cUL, CE

**Environmental:** 35°F – 140°F (1.6°C – 60°C) and up to 99% relative humidity

**Inlet Connection:** ½ Inch NPT Female 200psi (13.79 bar) Max

**Installation Bulletin #:** 5403713

**Code Requirements:** NFPA 13-2019 section 8.2.6.6 requires that each dry pipe system with an air compressor capable of supplying equal to or greater than 5.5 ft<sup>3</sup>/min (160 L/min) at 10 psi (0.7 bar) be provided with a listed, dedicated air maintenance device.

### Common Questions:

**Q: How does an Air Maintenance Device (AMD) work?**

A: The AMD reduces the downstream pressure to the level required (provided by the valve manufacturer) and allows small amounts of air/nitrogen to enter the system through a 3/32" orifice as needed for small leaks. When the system activates, the sudden loss of air/nitrogen overcomes the AMD's ability to supply air/nitrogen through the small orifice and allows the valve to open.

**Q: Where does the AMD get installed?**

A: The AMD is installed between an air or nitrogen supply (which is at a higher pressure than the pressure needed for the system to properly operate) and the dry or preaction sprinkler system.

For more information, visit:

[pttr.us/AAMD](http://pttr.us/AAMD)



- ✓ Corrosion resistant all brass construction
- ✓ 2" dial pressure gauge included
- ✓ Easily adjusted without tools

### Ordering Information

Model	Description	Part #
NAMD	Advanced Air Maintenance Device	1119660





Robust regulator that meets the UL 252 Standard for Compressed Gas Regulators is easy to adjust and precisely maintains pressure for dry-pipe/preaction fire sprinkler systems.



Can be installed in any 360° orientation to accommodate a number of installation applications.



All brass construction is corrosion resistant and long lasting.



Included custom, high-resolution gauge to ensure accuracy in setting the regulator to the needed maintenance pressure for normal operations.



# FSBS /

## Flowswitch Bypass Switch

Tired of coordinating schedules with alarm companies and sprinkler technicians? Want to save hundreds of dollars a year when performing sprinkler system fills and tests?

The FSBS is a key operated switch which when turned to the Bypass position will disconnect the flowswitch from the fire alarm panel and/or local alarm while simultaneously lighting an amber LED on the switch plate to indicate that the waterflow alarm has been bypassed. This allows the sprinkler system to be filled after service or maintenance without activating the alarm system. It also provides a visual indication of the flowswitch status to indicate if it is in alarm or normal condition

Activation of the FSBS will result in a trouble condition on the fire alarm panel. Restoral of the FSBS to normal will result in the fire alarm panel restoring to normal.

## Details

**Part #**                      Flowswitch Bypass Switch: 3001006  
                                    Surace Mount                      1000484  
                                    Double Gang Box-Red

## Ordering Information

Model	Description	Part #
FSBS	Flowswitch Bypass Switch	3001006
DG-B-R	Surface Mount Double Gang Box - Red	1000484

For more information, visit:

[pttr.us/fsbs](http://pttr.us/fsbs)



- ✓ **Allows sprinkler system to be filled without activating local waterflow alarm or fire panel**
- ✓ **Eliminates need to coordinate schedules with alarm companies and sprinkler techs**
- ✓ **Provides visual indication of FSBS and monitored flowswitch**
- ✓ **Key operated to prevent unauthorized use**
- ✓ **Compatible with any flowswitch, local indicating appliance and fire panel**



# Typical Installation



## Engineering Specifications

Purchase and install a UL listed Flow Switch Bypass Switch for bypassing the waterflow switch in the vicinity of the flowswitch where it will be visible from the floor or where required by the AHJ.

The device shall consist of a stainless steel plate with a key switch and three (3) LED's, Green for Normal, Amber for Bypassed and Red for Flowswitch Activated.

In the normal condition the green LED on the device shall be lit indicating that the flowswitch is connected to the fire alarm panel and local bell if applicable.

Turning the keyswitch to the bypassed position turns off the green LED and lights the amber LED. This disconnects the flowswitch from the fire panel causing it to go into a trouble condition. It also disconnects the flowswitch from the local bell if applicable.

Activation of the flowswitch will light the red LED on the device regardless of the position of the key switch.

Key switch model; FSBS manufactured by Potter Electric Signal Co.




At Potter Electric Signal Company,

**QUALITY** is the first order of business. Since 1898, we have served the fire and security industries on a worldwide basis. Today, we manufacture a full line of Sprinkler Monitoring Devices and Corrosion Solutions with unmatched quality and dependability. At Potter, we supply our customers with products that provide real world solutions for their unique needs and strive to provide them unequalled service and technical support.

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