

# XP95-PD/-PDR, XP95-ID/-IDR

## Analog Addressable Duct Smoke Detectors

### General

The Gamewell-FCI XP95-Series is designed to operate with the Gamewell-FCI 600 Series and ILI95-E3 Series analog addressable fire alarm control panels. The XP95-Series analog addressable duct smoke detectors provide early detection of smoke and products with combustion present in air moving through an HVAC duct. In the event of smoke detection, fans, blowers and complete systems may be shut down or activated in a fire alarm mode by the fire alarm control panel (FACP).

### Operation

The Gamewell-FCI analog addressable duct smoke detectors can use either interchangeable photoelectric or ionization sensor heads. The external alarm indicator is a light-emitting diode (LED), that is visible from the clear plastic cover housing. A manual reset switch appears on the front of the sensor.

Duct smoke detectors are also available with auxiliary relay contacts. The relay requires two additional wires for power and they will activate when the sensor reaches alarm levels. All wiring must comply with the local codes and regulations. XP95 Duct Smoke Detectors digitally transmit their address and the chamber's analog value to the FACP for analysis.

To perform air sampling, use the two tubes which extend into the duct. An exhaust tube of one standard length 7.5" (19.05 cm) is provided with the sensor housing. Intake sampling tubes, which must be ordered separately, are supplied in three standard lengths: 2.5, 5, or 10 feet (0.762, 1.524, or 3.048 m).

### Installation

To install the Duct mounting, use a template and the furnished, four sheet metal screws. The duct detectors are compatible with the analog loops on the Gamewell-FCI's 600 Series or the ILI95-E3 Series Analog Addressable fire alarm control panels.

### Programming

Use the address setting to program the XP95 Duct Smoke Sensors. To program the XP95 Duct Smoke Sensors, use the XPert addressing card and insert it into the sensor base. After you insert the sensor head into the base, the address is automatically relayed to the sensor. Changing the sensor does not require additional programming since the address remains on the XPert card located in the base. All other sensor-specific programming is accomplished at the FACP.

### Ordering Information

**XP95-ID:** Two-wire air duct, ionization smoke detector 24 VDC (RW-AAN)

**XP95-PD:** Two-wire air duct, photoelectric smoke detector 24 VDC (RW-AAP)

**30203-01:** Remote LED alarm indicator (two VDCs); used with XP95-PD and XP95-ID

**XP95-IDR:** Four-wire air duct, ionization smoke detector 24 VDC with relay (RW-ARN)

**XP95-PDR:** Four-wire air duct, photoelectric smoke detector 24 VDC with relay (RW-ARP)

**30203:** Remote LED alarm indicator (24 VDCs); used with relay versions

**30007-02:** Remote test station with alarm LED; used with relay versions

**GW70896-02:** Sampling tube, 2.5 feet (0.762 m)

**GW70896-05:** Sampling tube, 5 feet (1.524 m)

**GW70896-10:** Sampling tube, 10 feet (3.048 m)

**XP95-I:** Ionization sensor head (replacement)

**XP95-P:** Photoelectric sensor head (replacement)

**GW72247:** Duct detector enclosure (WP-1) (See Data Sheet P/N: CS-2308)



XP95 Series

## FEATURES & BENEFITS

- Compatible with the following Gamewell-FCI, analog addressable fire alarm control panels
  - 600 Series
  - ILI95-E3 Series
- Contains interchangeable "Plug-in" photoelectric or ionization heads
- Address is stored in the sensor base
- Address is set by the XPert addressing card
- Offers two-wire supply-polarity insensitive
- Provides a very low standby current
- Includes an LED alarm indication on the sensor head
- Relay version available with optional remote test unit
- Built in a rugged steel backbox with a clear plastic cover
- Contains large terminal connection screws
- No additional screens or filters to clean or replace
- Offers three standard tube lengths available:
  - 2.5, (0.762m)
  - 5, (1.524 m)
  - 10 ft., (3.048 m)
- Remote alarm LED option available

# XP95-PD/-PDR, XP95-ID/-IDR Technical Specifications

## SYSTEM

**Ambient Temperature:** 32° F to 120°F (0°C to 49°C)

**Humidity:** 10% to 85% R.H

**Material:** 18 gauge steel backbox, clear plastic cover

**Dimensions:** 10.0" H x 8.25" W x 2.25" D  
(25.4 H x 21.0 W x 5.7 D cm)

**Maximum Net Weight:** 4.0 lbs. (1.814 kg)

**Mounting:** Template and necessary hardware supplied

**Radioactive Element:**

**For Ionization versions only:** Americium 241  
(0.9 micro-curies)

**Sensitivity:** Factory set (ion); or adjustable via the IF600 control panel (photoelectric)

**Air Velocity:** 300 to 4,000 feet per minute

**Pressure Differential:** 0.01 to 1.2 inches (1.524 to 20.320 meters per second) of water

**Standby Current:**

**Photoelectric:** 340 uA

**Ionization:** 280 uA

**Alarm LED Current:**

**Photoelectric:** 4 mA

**Ionization:** 2 mA

**Remote Alarm Output Range:** 20 mA maximum; diode gated

**Relay Versions Only:**

**Relay Contacts:** Two dry Form-C contacts

**Relay Contact Ratings:** 10 A @ 24 VDC resistive maximum

**Operating Voltage:** 24 VDC

**Current:**

**Standby Current:** 0.010 A @ 24 VDC

**Alarm current:** 0.055 A @ 24 VDC

## ENGINEER'S SPECIFICATIONS

The contractor shall furnish and install, where indicated on the plans, analog addressable air duct smoke detectors. The sensors shall be Listed by Underwriter's Laboratories per UL® 268A and UL-Listed as compatible with the Fire Alarm Control Panel (FACP). The sensors shall operate at air velocities from 300 to 4,000 feet (91.44 to 1219.20 m) per minute. The smoke sensor shall contain an integral LED that shall latch-in when the unit goes into alarm, mounted at a 30° slant to provide a wide viewing angle.

A manual reset/test switch shall be located on the front of the device. The housing shall contain a sensor base which will accept photoelectric or ionization heads. All wiring must comply with local codes and regulations. The duct sensor housing shall have a metal chassis with a clear plastic cover and complete mechanical installation may be performed without removal of the cover. The duct smoke detector shall be the Gamewell-FCI model, XP95-ID(R) or XP95-PD(R) analog addressable duct smoke detector.

## STANDARDS

The XP95-PD/-PDR, XP95-ID/-IDR4 are designed to comply with the following standard:

### UL STANDARDS

UL Standard 864 9th Edition

### AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult the factory for the latest listing status.

**UL Listed:** S1195

**FM Approved**

**FDNY Approved:** 73-92-E

**CSFM:** 7272-1703-0155 (Photo)  
7271-1703-0157 (Ion)

**ISO 9001 Certification**

For a complete listing of all compliance approvals and certifications, please visit:

<http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx>

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