

XP95-M

Analog Addressable Multi-Sensor

General

The Gamewell-FCI Analog Addressable Multi-Sensor (XP95-M) is designed to provide superior multi-sensor detection by using the latest microprocessor technology and enhanced algorithms. The XP95-M is considered the optimum sensor to be used for most general applications since it detects both smoldering and flaming fires. The XP95-M Multi-Sensor is designed to operate with the Gamewell-FCI's, 600 Series or the ILI95-E3 Series of analog addressable fire alarm control panels.

The XP95-M Multi-Sensor includes both photoelectric and thermal sensing elements integrated into a single device. The XP95-M is capable of digitally transmitting the following data for analysis:

- its address to the fire alarm control panel
- the combined data consisting of an analog value from both the photoelectric chamber and the thermal element

Installation

All sensors in the XP95 range have the same external dimensions, and you can easily install the sensors in all available base options. The XP95 Multi-Sensor connects to a two-wire SLC circuit carrying both data and a 17V to 28V DC supply voltage. It is insensitive to loop connection polarity.

The dual Light-Emitting Diodes (LEDs) located on either side of the housing visibly transmit polling and external alarm status. The XP95-M thermal element is designed with open webs in the housing. This feature allows the free movement of air flowing around the exposed thermistor. The photoelectric detection element uses a patented smoke chamber and infrared smoke sensing design. In addition, you can connect a remote LED indicator.

Operation

The XP95-M Multi-sensor contains both a photoelectric detection chamber as well as a thermal sensing element. The photoelectric sensor uses a patented smoke chamber and an infrared smoke sensing design. The Infrared LED emits a burst of collimated light every second, or emits light in response to a direct interrogation. In clean air, the photo diode receives no light from the emitter, due to the arrangement of the chamber. When the smoke enters the chamber, it scatters light from the emitter onto the photo diode receptor proportionally to the smoke characteristics and density. As the smoke content in the chamber increases, the signal from the photo diode receptor increases.

The XP95-M monitors the temperature by using a single thermistor network which provides a voltage output proportional to the external air temperature. The thermistor is calibrated to return a normal air temperature analog value at 25° C. Information from each sensing element is processed and conditioned by an on-board advanced technology called, ASIC. Then, it is digitally transmitted to the FACP as a single analog value comprised of the combined responses from both the optical and thermal detection elements.

The XP95-M is an intelligent device. The microprocessor in the sensor head identifies alarm and trouble conditions which automatically performs drift compensation. If the sensor reports a condition that matches its programmed trouble signature, the FACP will report the sensor is in trouble and follow its programmed response sequence. Likewise, if the status reported matches the alarm signature, the Gamewell-FCI FACP will follow the programmed alarm response for the specific device in alarm. When a sensor is in alarm, the integral LED in the sensor's housing will light steady.



XP95-M

FEATURES & BENEFITS

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| • Compatible with the following Gamewell-FCI, intelligent analog addressable fire alarm control panels: <ul style="list-style-type: none">- 600 Series- ILI95-E3 Series | • Combines photoelectric smoke and thermal sensor values to enhance fire detection and reduce false alarms | • Designed with a detector head that uses common analog addressable style bases | • Sets the Address by the XPert addressing card and is stored in the sensor base <ul style="list-style-type: none">• Includes rate-of-rise heat signals | • Offers an analog count transmission to FACP <ul style="list-style-type: none">• Supports drift compensation via internal processing algorithms |
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XP95-M Technical Specifications

SYSTEM

Quiescent Current: 500 mA average

Alarm LED Current: .004A

Remote Alarm Output: .004A @ 5 VDC

Temperature Range: -5°F - 140°F

Relative Humidity (Non-Condensing): 0% to 95%

ENGINEER'S SPECIFICATIONS

Where indicated on the plans, the contractor will furnish and install dual chamber ionization sensors with one of the several available addressable mounting base options. The combination sensor head and twist-lock mounting base are UL® Listed as compatible with the Gamewell-FCI, 600 Series or ILI95-E3 Series Analog Addressable FACP. The base permits free interchange of sensor heads without requiring any additional wiring or additional programming of the head or base. The Gamewell-FCI model XP95-I smoke sensor has an LED that turns on when the unit goes into alarm.

Ordering Information

XP95-M : Multi-Sensor (Analog Addressable (55000-886)

XP95-B6EZ: 6" (15.24 cm) Ultra Low Profile EZ-Fit Mounting Base with X-Pert Card (45681-250)

XP95-B4: 4" (10.16 cm) Mounting Base with X-Pert Addressing Card (45681-210)

XP95-B6R4: 6" (15.24 cm) Relay Base (4 Wire) with X-Pert Addressing Card

XP95-B6SND: 6" (15.24 cm) Mounting Base with X-Pert Addressing Card and Audible Alarm Sounder

GW71112: Additional Blank X-Pert Addressing Cards

GW30203: Remote LED (24V)

STANDARDS

The XP95-M is 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

CSFM: 7272-1703-0154

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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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

Country of origin: U.S.A.

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