XP95-T

Analog Addressable Thermal Sensor

Description

The Gamewell-FCI XP95-T Analog Addressable Thermal Sensor operates with the Gamewell-FCI 600 Series analog addressable fire alarm control panels (FACPs). The Series XP95-T thermal sensor digitally transmits its address and the chamber's analog temperature value to the FACP for analysis.

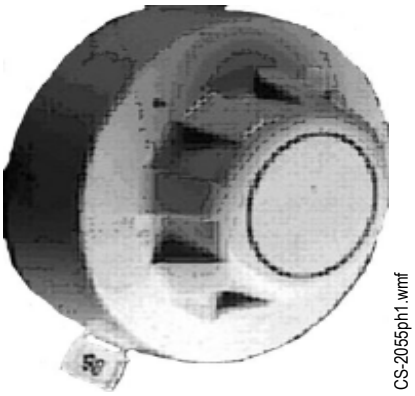
Thermal sensors are readily distinguished from smoke by the open webs in the housing designed to allow for free movement of air around the exposed thermistor.

Operation

The XP95-T thermal sensor constantly monitors its sensing element as well as its internal electronics. The results are digitally reported along with the unit's address through the integral communication electronics located in the sensor head. The thermal sensor monitors temperature by using a single thermistor network which provides a voltage output proportional to the external air temperature. This signal is processed and conditioned by an on-board advanced technology ASIC that digitally transmits the ambient temperature data to the FACP when interrogated.

Trouble and Alarm conditions of the XP95 sensors are determined at the FACP. The status information of each sensor is analyzed for off–normal conditions by the control panel. If the sensor reports a condition that matches its programmed trouble signature, the FACP will report that the sensor is in trouble and will follow its programmed response sequence. Likewise, if the status reported matches the alarm signature, the 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 continuously.

The XP95-T thermal sensor is calibrated to return a normal air temperature analog value to the FACP at 77° F. The device connects to a two–wire loop circuit carrying both data and a 117 to 28 VDC supply voltage, and is insensitive to loop connection polarity.



XP95-T

Features

- Compatible with the Gamewell-FCI 600 Series analog addressable control panels
- Fits 4.0" (10.16 cm) or 6.0" (15.24 cm) ultra low–profile, and E-Z fit bases
- Audible alarm sounder base
- Address is stored in the sensor base
- Address is set by XPert addressing card
- Two-color status LED
- Fixed point or rate-of-rise functions
- Timed temperature increase causes an alarm
- Thermal adjustability programming
- Optional remote LED

An ISO 9000-2000 Company

SIGNALING
UL LISTED S2527
FM APPROVED

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Operation (Continued)

A remote LED indicator can be connected. The device is compatible with point or group–addressable relay and sounder bases.

Engineer's Specifications

The contractor shall furnish and install, where indicated on the plans, electronic thermal sensors with one of the several addressable mounting base options available. The combination sensor head and twist–lock mounting base shall be UL Listed and UL Listed as compatible with the Gamewell-FCI 600 Series analog addressable fire alarm control panels.

The base shall permit free interchange of sensor heads without requiring any additional wiring or additional programming of the head or base. The sensor shall contain an integral LED that shall latch in when the unit goes into alarm. It shall be the Gamewell-FCI model XP95-T.

Specifications

Standby Current:	250 µA
Alarm LED Current:	4 mA
Remote Alarm Output:	4 mA @ 5 VDC
Temperature Range:	-4°F to 154°F
Relative Humidity:	(non-condensing) 0% to 95%
Recommended Spacing:	Smooth ceiling 60ft. (18.288 m) to walls 25 ft. (7.62 m)
Thermal Sensor Performance Features:	1) Thermal sensors have a thermal adjustability programming range from 25°C to 90°C (77°F to 194°F) in 1°C increments. 2) Thermal Sensors have a thermal rate-of-rise feature. When enabled in programming, should the XP95-T sensor increase temperature by greater than 15°F in less than one minute, an alarm will be generated.

Ordering Information

Model	Description
XP95-T	Thermal sensor analog addressable (55000-450)
XP95-B6EZ	6.0" (15.24 cm) ultra–low–profile EZ-Fit mounting base with XPert card (45681-250)
XP95-B4	4.0" (10.16 cm) mounting base with XPert Addressing Card (45681-210)
XP95-B6R4	6.0" (15.24 cm) relay base (four-wire) with XPert addressing card
XP95-B6SNDR	6.0" (15.24 cm) mounting base with XPert addressing card and audible alarm sounder
71112	Additional blank XPert addressing cards
30203	Remote LED (24 V)