



Analog/Addressable Photo Smoke Detector

55000-650

*Analog Addressable Photoelectric Smoke Detector
XP95 series*

Phone: 888- 673-2900 • Local: 309-755-6352 • Fax: 309-755-8310 • email: inquire@globalfirecontrol.com

DESCRIPTION

The XP95 series photoelectric smoke detector, model 55000-650, uses an internal pulsing LED and a photo-diode at an obtuse angle. In clear air conditions the photo-diode in the XP95 detector receives no light from the LED and produces a corresponding analog signal.

The signal increases when smoke enters the chamber and light is scattered onto the photo -diode. The signal is then processed by the circuitry and transmitted to the control equipment in exactly the same way as in case of the ionization smoke detector.

The photoelectric smoke detector is externally identical to the ionization detector, but is distinguished by having a clear indicator LED which emits red light when the detector is in alarm.

The XP95 series analog/addressable photoelectric type smoke sensor head is molded from white polycarbonate material with wind resistant smoke inlets and an insect resistant screen.

Stainless steel wiper contacts connect the sensor to the terminals, which are polarity insensitive, in the mounting base. Inside the sensor case is a circuit board with the sensing system on one side and the address capture, signal processing, and communication electronics on the other side.

The photoelectric system operates on the light scattering principle. When smoke enters the optical chamber it scatters light in proportion to the smoke characteristics and density. The sensor's electronics read the analog value, convert that value to a digital signal and communicate the digital signal to the FACP. The alarm threshold is programmed into the FACP.

Each detector can be addressed from 1 to 127, using a binary setting principal. A programming card is inserted into the base to give the detector head its address. Each programming card has removable binary numbers to make up the address. The removable numbers are 1, 2, 4, 8, 16, 32, and 64. As an example, a detector addressed at number 10 would have the numbers 8 and 2 removed.



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Model 55000-650**

FEATURES

- UL Listed
- MEA Listed
- CSFM Approved
- Compatible with the G-Force 4200 panel
- Wind resistant smoke inlets
- Insect resistant screen
- Alarm flag for fast alarm reporting
- Alarm address for fast location of alarm
- Automatic addressing with the XPERT card
- Electronics free 4" or 6" bases
- Slide-easy bases
- Ease of installation
- Elegant design
- Manufactured by Apollo Fire Detectors Ltd.



4" base & XPERT card



55000-650

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ORDERING INFORMATION

Model No.	Description
55000-650	Analog/Addressable photoelectric smoke detector head
45681-250	6" EZ fit base for XP95 addressable detectors
45681-242	6" relay base for XP95 addressable detectors
SDR-XP95	6" sounder base for XP95 addressable detectors, steady or temporal

SPECIFICATIONS

SLC Wiring:	2 wire supply, polarity insensitive	Remote Alarm LED:	4mA @ 5V
Supply Voltage:	16-28VDC	Termination: Field Wiring/Base	Stainless Steel, Nickel Plated
Current Consumption:	280µ A (.00028 Amp)	End-of-Line resistor:	None
Wind Speed:	3000 ft./min. (15m/s) Caution: sensors subjected to continuous velocities above 300 ft./min. may require more frequent maintenance	Chamber Configuration:	Horizontal optical bench housing an infrared emitter and sensor arranged radially to detect forward scattered light
Ceiling Spacing:	30ft.	Storage Temperature:	-20° F to + 175° F (-29° C to +80° C)
Sensitivity:	2.05±1.55%/ft. nominal for 55 counts fixed alarm threshold	Operating Temperature:	0° F to + 155° F (-18° C to +68° C)
Terminations: (Detector Head)	Stainless steel wiper contacts	Continuous Operating Range:	+32° F to + 100° F (0° C to +38° C)
Style:	Styles 4, 6, and 7	Humidity:	0% to 95% RH (No condensation or icing)
Address Setting:	XPART Card, binary	Dimensions:	4" x 1.65" (100mm x 40mm)
Alarm Indicator:	Clear LED emitting red light	Weight:	3.75 oz. (106g)
Materials:	Sensor housing is white polycarbonate, V-O rated to UL 94	Mounting:	4" or 6" round base
Atmosphere Pressure:	Unaffected		



Global Fire Control, Inc.

1201 7th Street, Suite 103
East Moline, IL 61244

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Fax: 309-755-8310

email: inquire@globalfirecontrol.com

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