

Description:

The XP95 ionisation detector continuously monitors the environment for contamination of clean air by smoke particles. This facilitates early warning of incipient fires.

When polled, the equivalent obscuration level is transmitted to the fire indicator panel. The information is carried along the detection loop in an analogue format by way of 'counts'.

The XP95 ionisation detector shares the same mechanical dimensions and colour to other detectors in the XP95 range of products. It would be mounted on an XP95 universal detector base.



Technical

An ionisation chamber within the detector is part of a module that includes a printed circuit board and signal processing electronics. The ionisation chamber system is an inner reference chamber contained inside an outer smoke chamber. The outer smoke chamber has smoke inlet apertures and is fitted with an insect resistant mesh.

An Americium 241 radioactive source irradiates both the inner and outer chamber. The ionised air results in a small current flow between these chambers when supply voltage exists across them.

When smoke particles enter the ionisation chamber ions become attached to them causing a reduction in the flow of current. This imbalance in the flow of ions between the inner and outer chambers results in an alarm condition.

Through the use of the **ConfigManager**, and features offered by Ampac's **FireFinder™** the user can program the fire indicator panel, to recognise this detector as an ionisation type.

"Day / night" facility is also available. This feature offers the automatic adjustment of detector sensitivity at specific times of day.

The Apollo XP95 is to be used in conjunction with an XP95 universal base that has the unique XPert card that is keyed to set the address of the detector.

APPLICATION

- Computer rooms
- Living area
- Warehouses
- Chemical storage

Specifications

Detector Type	Ionisation smoke
Communication	Apollo XP95
Supply Wiring	2 wire, polarity insensitive
Supply Voltage	17 to 28 volts
Quiescent current	340µA
Alarm analogue value	55 (approximate)
Remote Alarm o/p	4mA max
Storage Temperature	-30° C to 80° C
Humidity	0% to 95%
Approvals	C-Tick, SSL
Alarm Indicator	Red LED – red when on
Compatible Base	XP95 Universal Base
Product Code	201-0002

N.B.: It is highly recommended that the Apollo mounting block (Product Code 201-0101) is used for surface mounted detectors for correct fit and reliability.