Protec
A Bosch Company

ProPoint PLUS

EN54-20 / AS7240-20 / CCC - China

- **1 - 4 Individual detectors per aspirator (providing up to 4 separately identifiable areas)**

- **High performance optical 'Scatter Chamber Detectors' (SCD)**

- **(or)**

- **High performance optical 'Scatter Chamber Detectors' (SCD) and enhanced CO detection**

- **Multiple language, multi-function LCD display**

- **Simple install and commission process generally without the need for a laptop connection**

- **Simple Class A, Class B, Class C and Prison sensitivity configuration set up**

- **Inbuilt algorithm to reduce unwanted alarms**

- **Airflow monitoring per pipe**

- **Approved to EN54-20 & AS 7240-20**

ProPoint PLUS Optical 'Smoke' and 'Smoke/CO' detection

Aspirating detection is now a recognised solution for many different fire detection applications. ProPoint PLUS provides up to four separate detectors within a common aspirator enclosure and therefore provides four individually identifiable areas of detection per aspirator.

Each of the four plug-in 'Scatter Chamber Detectors' (SCD)'s detector modules can be either 'optical' only or combined 'optical/enhanced CO' detectors, the CO sensor is only suitable for small room applications. Independent and integrated alarm decision making through the use of complex algorithms extend the range of particle detection, confirm genuine alarms and reduce unwanted alarms.

Installation, configuration and commissioning of ProPoint PLUS detectors is very simple and installer friendly. Configuration to either Class A, Class B or Class C sensitivity options is achieved through a multi-language, multi-function LCD display generally without the need for a laptop connection.

Detector set up allows the installer to configure the detector sensitivity to an equivalent setting, as a known number of point type smoke detectors for each Class A, Class B and Class C system. This ensures the system specifier, designer, installer and commissioning engineer configure the ProPoint PLUS SCD's to the correct sensitivity for the particular application.
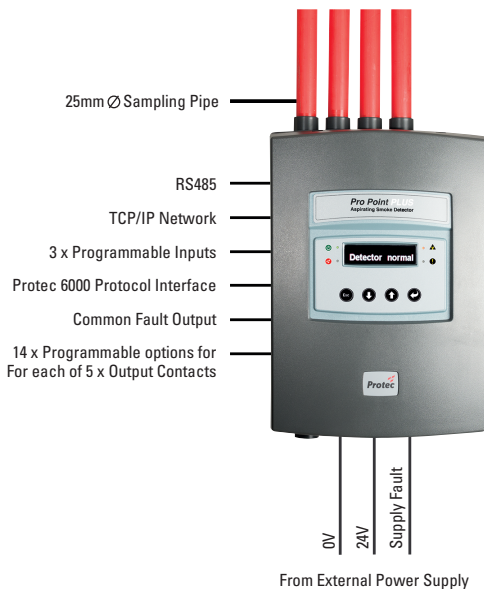
Aspirator fan speed and airflow configuration is a also a very simple process allowing ProPoint PLUS aspirating detectors to be installed in a variety of applications with short and relatively long pipe runs.

A D D R E S S I N G   S A F E T Y   S Y S T E M S   W I T H   I N T E L L I G E N C E

Technical Specification

PRODUCT CERTIFICATION

Independently tested — Intertek — 15LHK1529-01

BSI Certified Product — BMP 709279

Supply Voltage	21 - 29VDC
Power Consumption	9.6 watts quiescent (24VDC 100% Fan Speed)
Current Consumption	300mA with blower @ 30% 400mA with blower @ 100%
Operating Conditions	
Detector Ambient	0˚C to 38˚C (32˚F to 100˚F)
Tested to	0˚C to 55˚C (32˚F to 131˚F)
Sampled Air	-20˚C to 60˚C (-4˚F to 140˚F)
Humidity	10 - 95%RH, non-condensing
IP Rating	IP20
Sampling Network	Up to four inlet ports. Maximum pipe lengths specific to each individual design. All designs to be verified by 'ProFlow' sampling pipe calculation program. Maximum transport time 120 seconds.
Pipe ID	19mm to 25mm (preferred OD 25mm)
Alarm Indications	Pre-alarm warning and Fire per pipe
Other Indications	Supply Healthy, General Fault

Programmable Inputs	3 monitored inputs that may be configured for Isolate, Reset, Silence, Battery Fault and Mains Fault
Programmable Output Relays	5 Relays rated 1A @ 30VDC (Volt-free change over contacts)
Event Log / Data Retention	24,000 events stored on FIFO basis (alarms, actions, faults and data points) (Approx 30 day historical graph data)
EN54 & AS7240 Approved Sensitivity Settings	Optical only SCD Class A - 3 holes per detector (per pipe) Class B - 5 holes per detector (per pipe) Class C - 12 holes per detector (per pipe) Optical/Enhanced SCD Class A - 3 holes per detector (per pipe) Class B - 5 holes per detector (per pipe) Class C - 8 holes per detector (per pipe)
Airflow Monitoring	'High Airflow' and 'Low Airflow' fault monitoring.
Weight	3kg (6.6lbs)
Dimensions (mm)	380(H) x 250(W) x 137(D)
Relevant Standard	EN54 Part 17 & 20, AS 7240 Part 20

Connections

- 25mm ⌀ Sampling Pipe
- RS485
- TCP/IP Network
- 3 x Programmable Inputs
- Protec 6000 Protocol Interface
- Common Fault Output
- 14 x Programmable options for For each of 5 x Output Contacts

Pro Point — Aspirating Smoke Detector — Detector normal

0V — 24V — Supply Fault

From External Power Supply

Application Guide

Class A - High Sensitivity Applications include:-
Small Computer Rooms, Cleanrooms, Data Centres, Control Rooms, Archive Storage & EDP areas

Class B - Enhanced Sensitivity Applications include:-
Small Historic Buildings, Museums, Theatres, Galleries, High Ceiling Areas, Small Clean Warehouses & Small Atria Areas

Class C - Normal Sensitivity and Harsh Environment Applications include:-
Lift/Elevator Shafts, Small Cold Storage Facilities, Clean Warehouses, Atria, Inaccessible Voids & Up to 4 x separately identifiable Prison Cells per aspirator.

Product Codes

1 Pipe OP/CO	61-986-106	1 Pipe OP only	61-986-106-OP
2 Pipe OP/CO	61-986-103	2 Pipe OP only	61-986-103-OP
3 Pipe OP/CO	61-986-105	3 Pipe OP only	61-986-105-OP
4 Pipe OP/CO	61-986-104	4 Pipe OP only	61-986-104-OP