

- Cloud Chamber Detection Principle
- Up to 100 mtrs Sampling Pipe
- Programmable 'Pre-Alarm' warning condition
- 3 Programmable 'Fire' warning conditions
- Local Buzzer
- Silence and Reset Buttons
- Vast Sensitivity Range
- Latching / non latching alarm contacts
- Airflow Monitoring
- 'Fault Diagnostic' feature
- Immune to dust, humidity & temperature changes



UL/FM

CLOUD CHAMBER FIRE DETECTOR

The 'sensitivity range' is the key feature that makes the Cirrus Pro Series Fire Detector the worlds most versatile fire detection device.

For over 20 years Cloud Chamber detectors have been known as the most sensitive fire detection device, able to detect at the true incipient stage of a developing fire.

The New Cirrus Pro Series Detectors have a vast sensitivity range capable of being even more sensitive than previous versions. In addition the detector may now be configured to be installed in heavily contaminated environments, such as polluted production and warehousing facilities.

ALMOST UNLIMITED APPLICATIONS

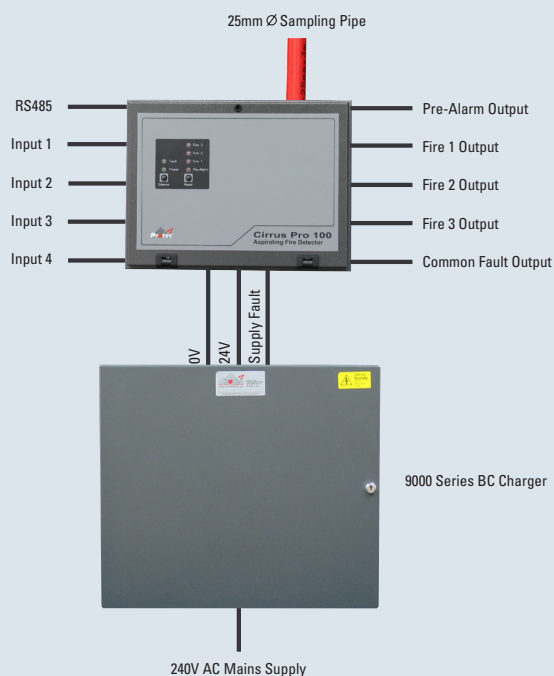
High Sensitivity Applications include:- Computer Rooms, Clean Rooms, Control Rooms, Data Centres, Valve Halls, Archive Storage, Anechoic Chambers, EDP areas.

General Sensitivity Applications include:- Historic Buildings, Museums, Hospitals, Cathedrals, Theatres, Art Galleries, Clean Warehouses, Atria, Indoor Stadiums.

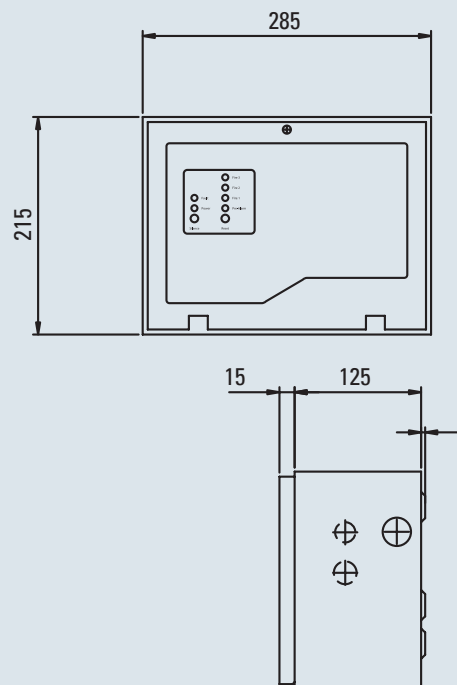
Harsh Environment Applications include:- Cold Storage Facilities, Specialist Production Facilities, Food Industry Facilities, Paper Production Facilities, Transportation Terminals, Flight Simulators, Aircraft Hangers, Prisons, Inaccessible Voids, Dirty Warehouses.

Technical Specification

Connections



Dimensions (mm)



Technical Specification:

Supply Voltage	20 - 29VDC
Power Consumption	7.2 watts quiescent (24VDC 90% Fan Speed)
Current Consumption	350mA quiescent 50mA alarm (24VDC 90% Fan Speed)
Dimensions	(W) 285mm, (H) 215mm (D) 144mm
Weight	4kg (8.8lbs)
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	IP30
Cable Access	6 x 20mm knock outs
Cable Termination	Screw terminal blocks (0.2 - 2.5mm ² , 30 - 12AWG)
Sampling Network	Single inlet port with combined sampling pipe length up to 100m typically (325ft.) Maximum Transport Time allowed up to 120 seconds.

Pipe ID	19 to 25mm (preferred OD 25mm)
Alarm Indications	Pre-alarm, Fire 1, Fire 2, Fire 3.
Other Indications	Supply Healthy, General Fault.
Sensitivity Range	20,000 particles per cc to 3 million particles per cc 10 programmable sensitivity ranges.
Programmable Inputs	4 monitored inputs that may be configured for Isolate, Reset, Disable, Fault, Gain Set, Battery Fault and Mains Fault, Silence and Reset button, Disable.
Programmable Output Relays	5 Relays rated 1A @ 30VDC (Volt-free change over contacts)
Event Log	128 events stored on FIFO basis.
Data Retention	Approx 10 day historical graph.
Variable Sensitivity Settings	7 day programmable settings with 3 time zones per day.
Airflow Monitoring	Adjustable 'High Airflow' and 'Low Airflow' fault monitoring.