

## Cirrus Pro 100

- 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



### 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

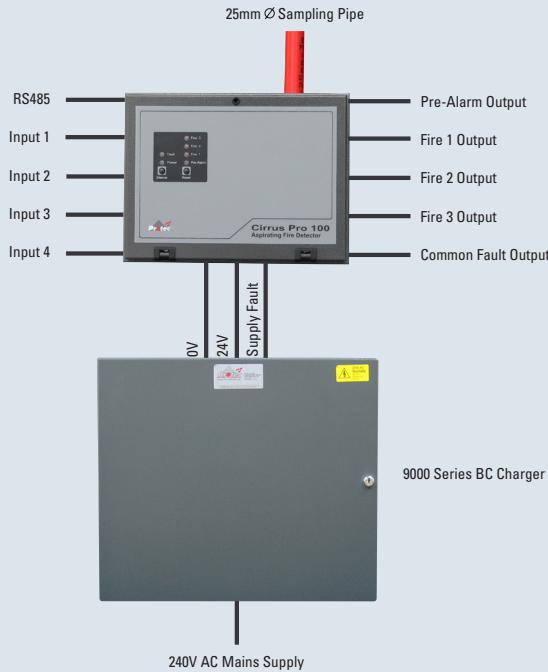
**High Sensitivity Applications include:-** Computer Rooms, Clean Rooms, Control Rooms, Data Centres, Valve Halls, Archive Storage, Anechoic Chambers, EDP areas.

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

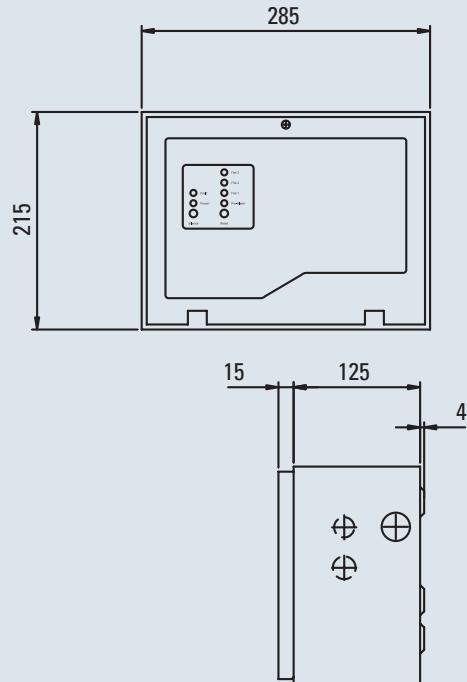
**Harsh Environment Applications include:-** Cold Storage Facilities, Specialist Production Facilities, Food Industry Facilities, Paper Production Facilities, Transportation Terminals, Flight Simulators, Aircraft Hangers, Prisons, Inaccessible Voids, Dirty Warehouses.

# Technical Specification

## Connections



## Dimensions (mm)



## Technical Specification:

<b>Supply Voltage</b>	20 - 29VDC	<b>Pipe ID</b>	19 to 25mm (preferred OD 25mm)
<b>Power Consumption</b>	7.2 watts quiescent (24VDC 90% Fan Speed)	<b>Alarm Indications</b>	Pre-alarm, Fire 1, Fire 2, Fire 3.
<b>Current Consumption</b>	350mA quiescent 50mA alarm (24VDC 90% Fan Speed)	<b>Other Indications</b>	Supply Healthy, General Fault.
<b>Dimensions</b>	(W) 285mm, (H) 215mm (D) 144mm	<b>Sensitivity Range</b>	20,000 particles per cc to 3 million particles per cc 10 programmable sensitivity ranges.
<b>Weight</b>	4kg (8.8lbs)	<b>Programmable Inputs</b>	4 monitored inputs that may be configured for Isolate, Reset, Disable, Fault, Gain Set, Battery Fault and Mains Fault, Silence and Reset button, Disable.
<b>Operating Conditions</b>		<b>Programmable Output Relays</b>	5 Relays rated 1A @ 30VDC (Volt-free change over contacts)
<b>Detector Ambient</b>	0°C to 38°C (32°F to 100°F)	<b>Event Log</b>	128 events stored on FIFO basis.
<b>Tested to</b>	0°C to 55°C (32°F to 131°F)	<b>Data Retention</b>	Approx 10 day historical graph.
<b>Sampled Air</b>	-20°C to 60°C (-4°F to 140°F)	<b>Variable Sensitivity Settings</b>	7 day programmable settings with 3 time zones per day.
<b>Humidity</b>	10 - 95%RH, non-condensing	<b>Airflow Monitoring</b>	Adjustable 'High Airflow' and 'Low Airflow' fault monitoring.
<b>IP Rating</b>	IP30		
<b>Cable Access</b>	6 x 20mm knock outs		
<b>Cable Termination</b>	Screw terminal blocks (0.2 - 2.5mm <sup>2</sup> , 30 - 12AWG)		
<b>Sampling Network</b>	Single inlet port with combined sampling pipe length up to 100m typically (325ft.) Maximum Transport Time allowed up to 120 seconds.		