Protec
Fire and Security Group

Cirrus Pro 200

- **Cloud Chamber Detection Principle**

- **Up to 200 mtrs Sampling Pipe**

- **Programmable 'Pre-Alarm' warning condition**

- **3 Programmable 'Fire' warning conditions**

- **Local Buzzer**

- **Silence and Reset Buttons**

- **Vast Sensitivity Range (incipient to conflagrating)**

- **Latching / non latching alarm contacts**

- **Airflow Monitoring**

- **'Fault Diagnostic' feature**

- **Immune to unwanted alarms from dust, humidity & temperature changes**

UL/FM

Cirrus Pro 200
Aspirating Fire Detector

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.
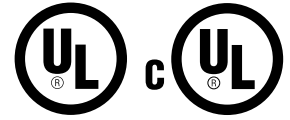
ALMOST UNLIMITED APPLICATIONS

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.
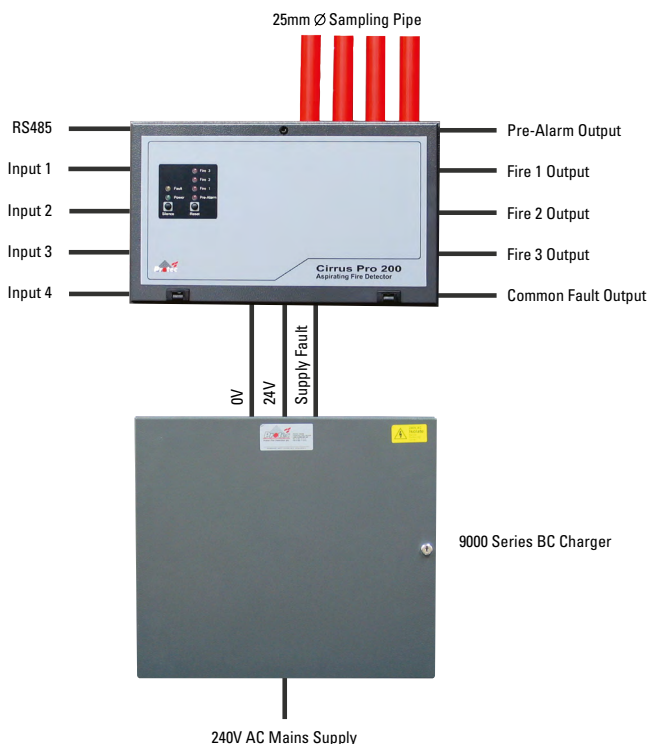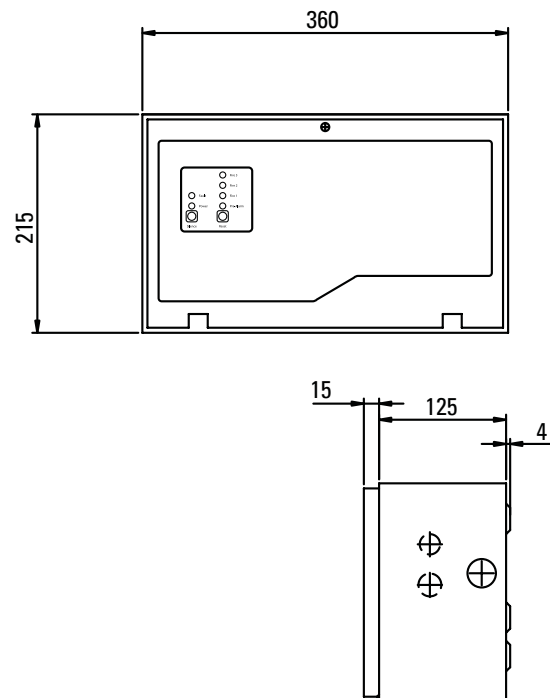
Technical Specification

FM APPROVED · UL · c UL

Supply Voltage	20 - 29VDC
Power Consumption	8.2 watts quiescent (24VDC 90% Fan Speed)
Current Consumption	340mA quiescent 500mA alarm (24VDC 90% Fan Speed)
Dimensions	(W) 360mm, (H) 215mm (D) 144mm
Weight	5kg (11lbs)
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 - 2.5mm², 30 - 12AWG)
Sampling Network	Four inlet ports with combined sampling pipe length up to 200m (650ft.) 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.
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	'High Airflow' and 'Low Airflow' fault monitoring.
Order Code	N 61-986-16 (UL/FM)

Connections

25mm ∅ Sampling Pipe

RS485
Input 1
Input 2
Input 3
Input 4

Pre-Alarm Output
Fire 1 Output
Fire 2 Output
Fire 3 Output
Common Fault Output

Cirrus Pro 200 Aspirating Fire Detector

0V · 24V · Supply Fault

9000 Series BC Charger

240V AC Mains Supply

Dimensions (mm)

360

215

15 · 125 · 4

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