Cirrus Pro 100

KEY FEATURES

- Unique Cloud Chamber Detection Principle
- Upto 100 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)
- Fixed or Variable sensitivity options
- 3 Programmable time zones per day
- Latching / non latching alarm contacts
- Alarm Delay setting - if required
- Airflow Monitoring
- 'Fault Diagnostic' feature
- Detector text available
- Sampling pipe text available
- 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.

THE WORLDS MOST VERSATILE FIRE DETECTION DEVICE
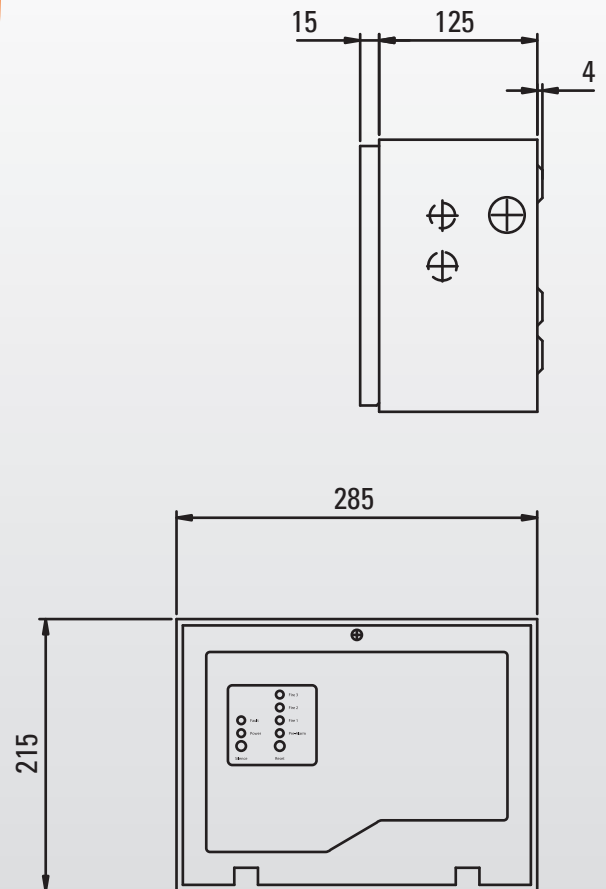
DETECTOR SPECIFICATION

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:
Width: 285mm, Height: 215mm, Depth: 144mm

Weight:
4kg (8.8lbs)

Operating Temperature:
Detector Ambient: 0°C to 38°C
(32°F to 100°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.

Programmable Output Relays:
5 Relays rated 1A @ 30VDC
(Volt-free change over contacts)

Event Log:
200 events stored on FIFO basis

Data Retention:
10 day historical graph.

Variable Sensitivity Settings:
7 day programmable settings with 3 time zones per day.

'Algo-Tec' Environmental Learning:
'Algo-Tec' interactive decision making algorithm software to continuously monitor background particles levels and enable optimum detector sensitivity and alarm thresholds.

Airflow Monitoring:
'High Airflow' and 'Low Airflow' fault monitoring.

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