



Clients: Anglo American, Kumba Iron Ore, Sishen Mine - Kathu, Northern Cape, South Africa – 112 x Cirrus Pro 100 detectors complete with customised weatherproof enclosures. Phase 2 of the above will include an additional 60 Cirrus Pro detectors.

Assmang, Khumani Iron Ore Mine, Kathu, Northern Cape, South Africa – 15 x Cirrus Pro 100 units detectors.

Assmang, Black Rock Mine, Kalahari Manganese Field, Black Rock, Northern Cape – 35 x Cirrus Pro 100 detectors.

Applications: Mine electrical control rooms, mine electrical power rooms, mining machine control rooms, mining machine electrical power rooms, substations. The location of many of these aspirating detectors is remote and therefore these are often connected to fixed fire extinguishing systems.

Reasons for using Protec Aspirating Detectors:

- Cirrus Pro aspirating can provide an alarm at an earlier stage of a fire than most other comparable technologies in these difficult applications as it is not necessary to de-sensitise the detector for unwanted dust alarms.
- Cirrus Pro Detectors are a sensitive yet stable fire detection system responding to products of combustion.
- Cirrus Pro Detectors can respond to fire conditions far in advance of standard point detection.
- Cirrus Pro Detectors do not provide unwanted alarms from airborne dust and other pollutants.
- Cirrus Pro Detectors do not provide unwanted alarms from temperature changes and temperature extremes.
- Cirrus Pro Detectors generally do not require intermediate level detection points.

Client Detection System Requirements:

Early Warning Fire Detection - to protect equipment, reduce potential fire damage, limit business disruption and production downtime.

False/Unwanted Alarms - enhanced sensitive fire detection with complete resistance to unwanted alarms from dust and other pollutants.

A number of the above mining sites had previously specified 'optical' based aspirating detectors and had experienced far too many unwanted alarms from the dust that is constantly prevalent throughout these sites. Only 'cloud chamber' based aspirating detectors can truly claim total immunity to false/unwanted alarm signals from dust and many other pollutants which plague other detectors in difficult applications.