

## Upgrade Process

Many existing aspirating detector installations utilise technology that is a number of years old and which has now been pronounced as either having limited support or is obsolete, by the product manufacturer. Changes in design standards, EN54 regulations and a continued growth in the many applications for aspirating detectors has resulted in Protec creating the next generation range of aspirating detectors to replace these existing devices.

As you will appreciate, technology has moved forward with older electronic components becoming increasingly challenging to obtain and in numerous cases, component manufacturers no longer supporting their products.

Protec have ensured that our latest generation aspirating detectors are generally "backwards compatible" with regards to most sampling pipe installations, which allows minimum installation changes to the existing complete aspirating detection system\*.

Most aspirating detector manufacturers have adopted the industry standard 25mm o/d sampling pipe, additionally the sampling pipe entries to the different detectors are generally standard too. What is a variable between the different manufactured detectors is their product approvals with specific reference to the number of sampling holes allowed per pipe/detector, together with the lengths of sampling pipes allowed for the different Fire Classes (A, B or C). Therefore it is important to assess the existing installation prior to, and to assist with, the selection of the new Protec detector.

It is particularly important to consider upgrading 'older' aspirating detectors as these devices contain moving parts including blowers and pumps and can be adversely affected over time by the environment they operate within.

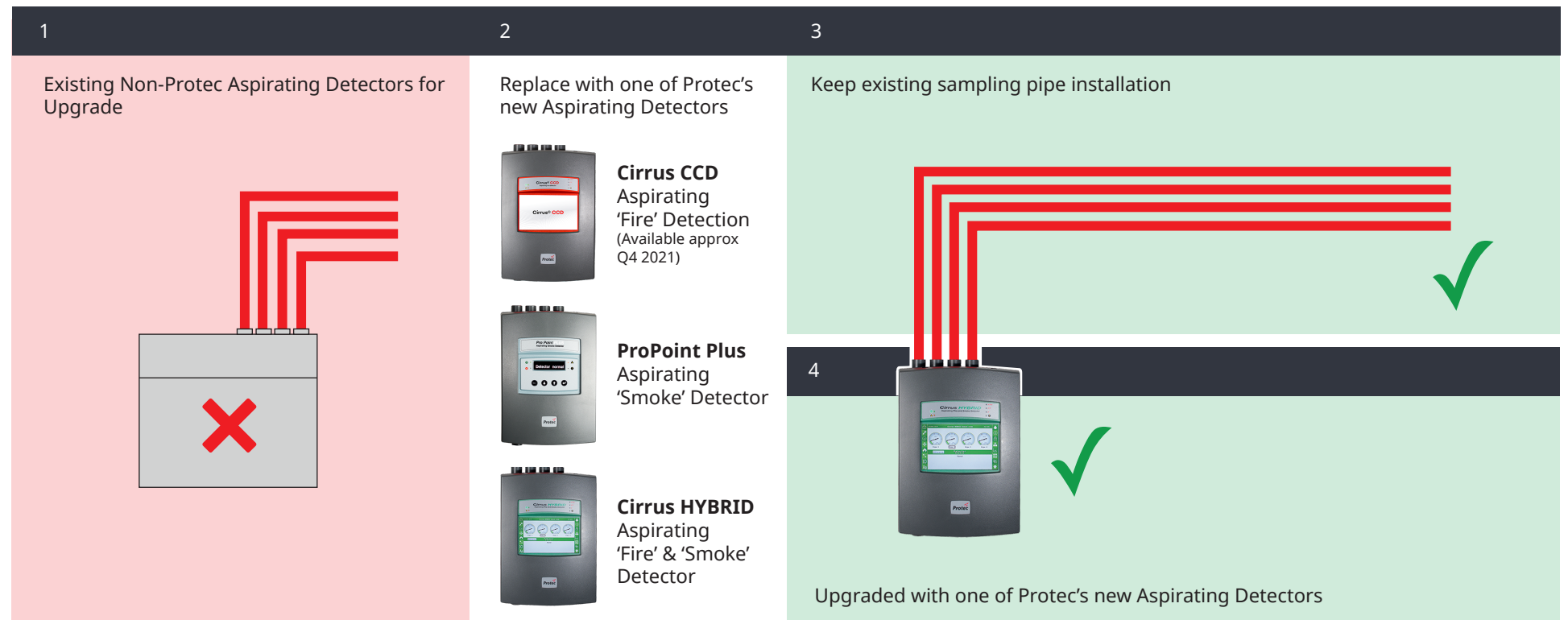
### Key Points

- ✓ Generally utilises the existing sampling pipe installation
- ✓ Enhanced features for all new detectors
- ✓ New detectors compliant with many global and country specific approvals
- ✓ Different technology detectors available for different applications
  - Aspirating Fire Detection (Cloud Chamber Particle Detection Technology)
  - Aspirating Smoke Detection (LED Optical Smoke Detection Technology)
  - Aspirating Fire & Smoke Detection (Cloud Chamber Particle Detection Technology & LED Optical Smoke Detection Technology )
- ✓ Most detectors include built-in Protec 6000 protocol interfaces (if required)
- ✓ Forward compatibility with new Protec Digital protocol (if required)

\* Generally includes most existing installations utilising 25/27mm o/d sampling pipe

**If you require any further information please contact our export department on +44 (0) 1282 717206 or email: [export@protec.co.uk](mailto:export@protec.co.uk) or our local area partner**

## Simple Process for Upgrade



### Additional Notes

**Power Supplies** - Consideration should be given to the existing standby power supply as this may/may not be compatible and is dependent upon the new detector selected and the standby requirements of the installation.

**Existing Installation** - In carrying out any aspirating system upgrade consideration should be given to evaluating the efficiency of the existing installation. The location of the existing sampling holes should be confirmed as correct as structural/building changes may have taken place from the original installation. Where possible the existing installation parameters should be re-calculated using the Protec 'Proflow' sampling pipe calculation program, for the selected new aspirating detector. As part of the detector upgrade the sampling pipe installation should be fully cleaned ensuring there are no inline filter, pipe or sampling holes restrictions/blockages. Cleaning is often carried out using a compressor or vacuum dependent upon the nature of the protected space. A suitable in-line sampling pipe filter should be added to each existing pipe installation if this is not part of the original installation.

**Fire Alarm Panel Interface** - Most models of the new range of Protec aspirating detectors contains an inbuilt 6000 Protocol interface, this allows seamless connection into the Protec main building fire alarm system. Each model of the new range of Protec aspirating detectors contains programmable output contacts for connection onto a non-Protec manufactured main building fire alarm panel.

### Aspirating Detector Upgrade Options

#### Cirrus CCD Aspirating 'Fire' Detection

- Cirrus CCD 1 - 1 Pipe detector
- Cirrus CCD 2 - 2 Pipe 'scanning' detector
- Cirrus CCD 3 - 3 Pipe 'scanning' detector
- Cirrus CCD 4 - 4 Pipe 'scanning' detector

#### ProPointPlus Aspirating 'Smoke' Detectors

- ProPoint Plus 1 - 1 Pipe with OP only or OPCO SCD
- ProPoint Plus 2 - 2 Pipe with OP only or OPCO SCD
- ProPoint Plus 3 - 3 Pipe with OP only or OPCO SCD
- ProPoint Plus 4 - 4 Pipe with OP only or OPCO SCD

#### Cirrus HYBRID Aspirating 'Fire' & 'Smoke' Detectors

- Cirrus Hybrid 1 Pipe detector
- Cirrus Hybrid 2 Pipe detector
- Cirrus Hybrid 3 Pipe detector
- Cirrus Hybrid 4 Pipe detector
- Cirrus Hybrid Scanner 2 - 2 pipe 'scanning' detector
- Cirrus Hybrid Scanner 3 - 3 pipe 'scanning' detector
- Cirrus Hybrid Scanner 4 - 4 pipe 'scanning' detector