



6000PLUS Sensor Range

The perfect fusion of technology,
innovation, and style

A Sense of Protection

The Protec 6000PLUS sensor range is a leader in digital addressable fire detection. Our cutting-edge sensors take fire safety to the next level by seamlessly integrating our state-of-the-art detection and alarm technologies into one sleek, compact sensor head.

The sensor range utilises our innovative 6000PLUS Protocol, bringing many innovations together. Engineers and end-users benefit from the FAST™ addressing and RVAV™ identification, making fieldwork a breeze. Thanks to our Algo-Tec™ software, false alarms are reduced, and maintenance events are tracked in real time, ensuring your devices always perform optimally.

The 6000PLUS sensor doesn't demand multiple addresses or additional supplies. Its loop-powered design is an all-in-one solution that saves space, time, and resources, making it the ultimate fire-detecting powerhouse.

Embrace the future of life safety with the all-in-one solution for detecting fires, minimising false alarms, and ensuring safe evacuations.



Key Features

Base

The universal Protec base allows the sensors to be mounted directly to any flat surface or Besa box.

Ident Rings

Ident rings make for easy recognition of the sensor features.

Ident ring identification
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Anti-Tamper

Anti-tamper locking ensures no sensors can be removed without a tool.

Advanced Sensing Technology

The Protec Algo-Tec™ 6000PLUS interactive programmable algorithms evaluate the intelligent sensor data. Sensors are available in many variants allowing for use in any application.

Suitable for any Application

Developed to incorporate advanced fire sensing technology, electronic sounders, high-intensity LED visual alarm devices (VAD) and speech-enhanced talking sounder capability.

The Identity of Versatility



Sensor

A solid band identifies a detection-only sensor head. The various colours symbolise the four types of detection used: Optical (Grey), Heat (Red), Optical Heat (Blue) and our Optical, Heat and CO (Black)



Sounder

A band with three perforations highlights our 'S' (Sounder) head, including a sensor with traditional audible tones. Each sounder head comes with multiple tones, which can be used for fire alarm evacuation cause and effects.



Visual Alarm Device (VAD)

A large lens mounted on top of sensor identifies the VAD incorporated into the head. Our VAD iterations provide a low power consumption, variable output flashing LED alarm with a wide angle of coverage.



Talking Sounder

A band with six perforations shows our 'TS' (Talking Sounder) variant, which delivers intelligible, pre-determined alert and evacuation messages. The vocal alarm proves indispensable for reducing confusion during emergency evacuations.

Did you know?

Protec manufactures 250,000 sensors on average every single year



6000PLUS Sensor Identification

The 6000PLUS range includes different types of sensors that cater to various fire detection methods. These sensors range from standard optical or heat formats to multi-detection offerings such as Optical/Heat and Optical/Heat/Carbon Monoxide. Our engineer-friendly approach for identifying the sensor type is straightforward due to the unique colour-coded ident ring. With this feature, there's no need to remove the sensor.

Did you know?

Protec started using 'Ident Rings' in the 1990s

Temperature Sensor



Heat Sensor



Heat Sensor,
Sounder



Heat Sensor,
Sounder, and VAD



Heat Sensor c/w
Talking Sounder
and VAD

Optical Sensor



Optical
Smoke Sensor



Optical Smoke
Sensor, Sounder

Optical/Heat



Optical Heat
Sensor



Optical Heat
Sensor, Sounder



Optical Heat
Sensor, VAD



Optical Heat
Sensor, Sounder,
and VAD



Optical Heat
Sensor, Talking
Sounder



Optical Heat
Sensor, Talking
Sounder and VAD

Optical/Heat/CO



Optical Heat
CO Sensor



Optical Heat CO
Sensor, Sounder



Optical Heat
CO Sensor,
VAD



Optical Heat CO
Sensor, Sounder,
and VAD



Optical Heat CO
Sensor, Talking
Sounder and VAD

One Sensor, One Solution

The 6000PLUS sensor range offers multiple variations to choose from. These sensors use various technologies that work together to create a complete compliant system. With only 6000PLUS sensor heads, there is no need for additional wall sounders, visual alarm devices, or multiple base types.



- **6000PLUS Optical** – Ideal for ceiling voids, lift shafts, risers, offices, server rooms.
- **6000PLUS Heat** – Best used in kitchen and plant rooms where smoke from cooking can cause false alarms.
- **6000PLUS Optical/Heat** – Our optical heat sensors prove the ideal solution for differentiating between smoke and steam when areas have high humidity, such as shower lobbies.
- **6000PLUS Optical/Heat/CO** - The combination of these technologies within one fire sensor head proves excellent in detecting free-burning chemical fires or deep-seated smouldering fires, which produce little heat and smoke but large amounts of CO.
- **6000PLUS Sounder** – Quick and efficient way of raising the alarm and starting an evacuation.
- **6000PLUS with Sounder VAD** – In areas with lots of noise or where the hearing impaired may be left alone, the sounder VAD shines, ensuring visual notification across a room.
- **6000PLUS with Talking Sounder** – Adding a talking sounder sensor means you have the traditional tones of the sounder variant for fire alarms, but you have the use of other tones, such as our ‘bell tone’, enabling the fire alarm system to be used for the class change.
- **6000PLUS with Talking Sounder VAD** – When a VAD is added to a sensor with a talking sounder, it offers a visual identification of a scenario as well as a vocal alert.

Drawing for illustration purposes only. Not to scale or BS 5839 compliant.

Accessories

In addition to the versatile nature of the 6000PLUS sensor range, we also provide several accessories to provide extra protection, safety, and accessibility.



Remote Indicators

When detectors are in those hard-to-see places, such as ceiling voids or risers, our remote indicators link to our detector bases to show the status of a sensor from a more accessible location.



Anti-Ligature Base

When settings call for extra safety, we have devised our magnetic anti-ligature base. When excessive stress is applied to the sensor head, the sensor removes from the base instantly.



Standard Base

Protec standard base is a universal base that works with our 6000 addressable range of automatic point detectors.



Duct Detector

The duct smoke detector enclosure aids in detecting smoke and fire particles in HVAC ducts using a 6000PLUS/OP digital addressable head. Its unique 'one pipe system' employs the Venturi principle to enable maximum airflow through its chamber housing.

Fast Installation

Modern buildings are all about aesthetics, so our Protec sensors blend seamlessly with contemporary spaces. With our fast-fix base, installing becomes a breeze. Our detectors can be installed even before the ceilings are completed without the need for disconnecting the base to install onto the ceiling after, this can speed up the installation process and streamline commissioning on busy worksites. The fast-fix base also results in a lower profile, visually pleasing appearance.



1 Cut a hole in the suspended ceiling and pull through the detector.



2 Place the fast-fix trim onto the detector base.



3 Turn the trim clockwise to lock into position.



4 Push the detector back into the hole.



5 Tighten the three detector screws until firmly mounted in position.



6 Spin the screw covers into position.