

# 6000*PLUS*/OP/S Optical Smoke Sensor Sounder

- Protec Algo-Tec™ 6000*PLUS* Protocol
- Ideal for Detection of Smouldering Fires
- Integrated Electronic Sounder
- Loop Powered
- Low Current
- Programmable Volume Control
- Integral Short Circuit Isolator
- Sounder Tone Selectable at Control Panel
- Devices Display Address Number
- FAST™ Addressing



The Protec Algo-Tec™ 6000*PLUS* sensor range has been developed to incorporate advanced fire sensing technology, electronic sounders, high intensity LED warning beacons and speech enhanced talking sounder capability, all integrated within the sensor head and powered from the loop.

**6000***PLUS***/OP/S** Interactive addressable high performance optical smoke sensor provides efficient reliable detection using the light scatter sensing principle with rapid response to a fire signal.

The intelligent sensor data is evaluated by the Protec Algo- $Tec^{TM}$  6000 PLUS interactive programmable algorithms, designed to give maximum sensitivity to smoke detection, with high resistance to false alarms due to high air velocity, insects, dust and R.F. interference.

Providing early warning of a fire condition particularly for slow burning fires, the 6000/OP/S is an ideal general purpose smoke sensor for offices, shops, corridors, factories, warehouses and computer rooms.

Sensor Sounder - The Protec Algo-Tec<sup>™</sup> 6000 PLUS/OP/S sensor is equipped with an integrated loop powered electronic sounder with three programmable sounder tone options, constant, pulse or warble selectable by the control panel along with adjustable volume control. A loop short circuit isolator is also incorporated within the head. The sensor sounder tones are compatible with the full range of Protec 6000 electronic sounders.

# 6000*PLUS*/OP/S Technical Specification

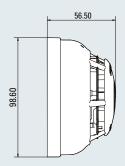






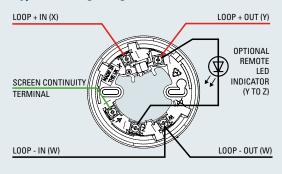
LPCB ref. no. 201v/01

### **Dimensions (mm)**





## **Typical Wiring using 6000PLUS/BASE**



### **Technical Specification:**

Environment -10°C to +50°C (95% R.H. non condensing)

Ingress Protection IP41

Weight (excluding base) 105g

Loop Powered Yes

Loop Standby Load 0.4mA

Loop Alarm Load 5.4mA

Loop Voltage 18 - 28V

Isolator Yes

CE

Device Protocol Algo-Tec™ 6000*PLUS* 

Product Approval LPCB Certificate No: 201ab/01

EC Certificate No: 0832-CPD-1185

DoP No: PFD-CPR-0044

Relevant Standard: EN54 Part 3, 7 & 17

AS7240 Part 7

#### FAST™ Addressing

FAST™ (Firmware Addressed Secure Technology). Each Algo-Tec™ 6000 device is manufactured with a unique serial number factory programmed (firmware embedded) and device label. The label includes the serial number on two bar-coded segments, two of which are removable by the installer (one is a spare). The label is attached to an address location booklet, which is handed to the engineer prior to commissioning. During commissioning the engineer scans the address location booklet to download the loop, address and serial number details. The downloaded data is then checked and stored within the secure non-volatile memory of the control panel and the addressing is complete. FAST™ and easy eliminating troublesome and time consuming setting of address cards and DIL switches. FAST™ addressing is more secure than 'SOFT ADDRESSING' and easier to extend or amend, allowing greater flexibility and reduced costs.

## $\mathbf{RVAV}^\mathsf{TM}$

 $RVAV^{TM}$ (Remote Visual Address Verification). Once the system has been FAST™ addressed the correct location of each Algo-Tec™ device can be easily identified, using the device's in-built LED to indicate the device address number. The LED has a simple coded pulse, making it quick and easy to count. Because the control panel sends the RVAV™ signal to each device, the RVAV™ walk test is confirming that the devices are correctly addressed and correctly communicating. As-fitted Drawings and device labels can also be checked during RVAV™ walk test, without the disruption of activating devices commonly associated with other types of system.

## **Tone Options**

Warble Tone: 990Hz(250ms), 730Hz(250ms)

Continuous Tone: 990Hz

Pulse Tone: 990Hz(500ms), Silence(500ms)

#### **Tone Volume Options**

The tone and volume are selectable at the control panel (measured at one metre): High: 85dB(A), Mid: 75dB(A), Low: 65dB(A)

## **BASE Options:**

#### 6000PLUS/BASE

- Low profile common mounting base

#### 6000PLUS/FFBASE

- Fast fixing semi recessed base

Note - base options above are included in the product approval.



Company Policy is one of continuous improvement, we reserve the right to change specification without prior notice

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