

Sensor

smoke & temperature

*monitor and control equipment
24/7/365*



The smoke and temperature sensor is a low current industrial detector for use with the i-BOX and AX300, access control and environmental monitoring range of products.

The plug and play unit incorporates a standard temperature sensor along with smoke detection, which can operate either as an optical, opto/heat combined, rate of rise heat or fixed 77°C heat sensors which are set via the selection switches.

The detector includes three LED indicators, the red LED is continuous to indicate the alarm condition and can give a short flash in the normal condition. The yellow LED is lit continuously to indicate a smoke sensing chamber fault or that the detector has reached the limit of its contamination compensating ability. The blue diagnostic LED, built into the base, indicates whether the unit is communicating correctly or if there is a communication error.

Installation of the unit is easy and incorporates a lockable base ensuring that the unit is not tampered with.

Dimensions:

Unboxed—104 x 104 x 56mm (4.09 x 4.09 x 2.20")

Boxed—105 x 105 x 60mm (4.13 x 4.13 x 2.36")

Cable Length:

2.5m supplied—maximum 25 metres from i-Box / AX300

Weight:

Nett 198g (6.98oz)

Gross 228g (8.04oz)

Material:

PC/ABS

Operating Voltage:

12 volt supplied through RJ10 connection

Current Consumption:

15mA—normal

25mA—alarm

Visual Indicators:

Non alarm pulse every 10 seconds

Alarm—red continuous

Fault— yellow continuous

Blue— fast pulse—communication error

slow pulse—communication OK

Reset Time: 1 second minimum

Ambient Temperature (maximum)

Opto mode 60°C

Opto-Heat mode 45°C

60°C rate of rise mode 45°C

77°C fixed temp mode 60°C

Operating Temperature:

-40°C to +85°C

Accuracy (temperature sensor):

10% @ 20°C

Part Numbers:

IC-SD

Smoke & Temperature Sensor

IC-2.5MCE

2.5 metre extension cable



Temperature Sensor

The built-in temperature sensor, reports an analogue measurement ranging from -40°C to +85°C, with accuracy of 10% at 20°C. Full calibration and monitoring of the sensors are maintained through the CMAX-5 central software.

The unit can also be set to detect not only an increase in temperature, but also smoke detection capabilities as outlined below.

Optical Smoke

This is suitable for most applications giving the fastest response to slow burning or smouldering fires which give rise to large visible smoke particles.

Opto-Heat

This will respond better to fast burning fires yet maintain the advantage of optical detectors when detecting smouldering fires. The thermal enhancement of this detector allows a higher alarm threshold which provides a greater rejection of false alarms. The detector will also give an alarm at temperatures above 60°C.

Rate of Rise Heat

The detector will detect rapid increase in temperature or temperatures above 60°C and should be used in environments where the ambient conditions might cause false alarms if smoke detection were to be used, for example where there is a high level of dust, fumes, steam or smoke under normal conditions.

Fixed (77°C) Heat

This detector will detect temperatures above 77°C and should be used in environments where the ambient conditions might cause false alarms if smoke detection were to be used, for example where there is a high level of dust, fumes, steam or smoke under normal conditions.

Warranty Period

The equipment is guaranteed against defects in materials and workmanship for 2 years from date of shipment (see warranty policy for details).



27-28 Shrivenham Hundred Business Park, Watchfield, Swindon,
Wiltshire SN6 8TZ United Kingdom
Tel: +44 (0)1793 784002
Fax: +44 (0)1793 784005
Email: info@axxessid.com
Website: www.axxessid.com

Distributor: