

Context Plus XP95 Analogue Addressable Smoke Detector

Product code: 55000-685IMC

IMC-685-DS-1



OPTICAL SMOKE DETECTOR, XPERT STYLE, 55000-685IMC



The Context Plus Addressable Optical Smoke Detector. Within the case is a printed circuit board which, on one side, has the light proof labyrinth chamber with integral gauze surrounding the optical measuring system and, on the other, the address

capture, signal processing and communications electronics.

An infrared light emitting diode within its collimator is arranged at an obtuse angle to the photo-diode. The photo-diode has an integral daylight-blocking filter.

The IR LED emits a burst of collimated light every second. In clear air the photo-diode

receives no light directly from the IR LED because of the angular arrangement and the

dual mask. When smoke enters the chamber it scatters photons from the emitter IR LED onto the photo-diode in an amount related to the smoke characteristics and density.

<http://www.contextplus.co.uk/>

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Specifications are typical and given at 23°C and 50% relative humidity unless stated.

Communication protocol:

XP95 pulse 5-9V

Detector Type: Products of combustion (smoke) detector

Detection Principles: Photo-electric detection of light scattered in a forward direction by smoke particles

Chamber Configuration: Horizontal optical bench housing an infrared emitter and sensor arranged radially to detect scattered light

Sensor: Silicon PIN photo-diode

Emitter: GaAs Infra-red light emitting diode

Sampling Frequency: 1 second

Supply Wiring: Two wire supply, polarity insensitive

Terminal Functions:

L1&L2 supply in and out connections (polarity insensitive)

+R remote indicator positive connection (internal 2.2kΩ resistance to supply +ve)

-R remote indicator negative connection (internal 2.2kΩ resistance to supply - ve)

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Supply Voltage: 17 to 28 Volts dc

Quiescent Current: 340 μ A

Power-up Surge Current: 1mA

Duration of Power-up Surge

Current: 1 seconds

Maximum Power-up Time:

4 seconds for communications
(measured from application of
power and protocol) 10 seconds
to exceed 10 counts 35 seconds
for stable clean air value

Storage Temp: -30°C to +80°C

Operating Temp: -20°C to +60°C

Alarm Level Analogue Value: 55

Clean Air Analogue Value: 25 \pm 7
counts

Alarm Indicator: Clear lens Light
Emitting Diode (LED)

Alarm LED Current: 4mA

Remote LED Current: 5mA
maximum

Type Code: (210 43) 101 00

Sensitivity: Nominal threshold of
2.1% light grey smoke
obscuration per metre

Guaranteed Temperature Range
(No condensation or icing): -20°C
to +60°C

Humidity (No condensation or
icing): 0% to 95% relative humidity

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Wind Speed: Unaffected by wind

Atmospheric Pressure: Unaffected

Vibration, Impact & Shock: To EN54

Pt 7 (BS5445 Pt 7)

IP Rating: 33

Dimensions: (diameter x height)

Detector: 100mm x 39mm

Detector in Base:

100mm x 47mm

Weights: Detector: 105g Detector

in Base: 161g

Materials: Detector Housing:

White polycarbonate V-0 rated to

UL 94 Terminals: Stainless Steel

DEVICE RESPONSE

Type: Overheating/thermal combustion

Response: Very good

Type: Smouldering/glowing combustion

Response: Good

Type: Flaming combustion

Response: Good

Type: Flaming with high heat output

Response: Good

Type: Flaming - clean burning

Response: Very poor

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