

# Context Plus XP95 Analogue Addressable Heat Detector

**Product code: 55000-485IMC**

IMC-485-DS-1



ADDRESSABLE HEAT DETECTOR (A2S), XPERT STYLE, 55000-485IMC



Context Plus temperature (heat) detectors have a common profile with ionisation and optical smoke detectors but have a low air flow resistance case made of self-extinguishing white polycarbonate. They monitor temperature by using a single thermistor network which provides a voltage output proportional to the external air temperature.

The response to temperature increases of the standard temperature detector (part no: 55000-485IMC) enables the detector to be utilised as an EN54 Grade 2 heat detector.

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

E: contextplus@xportsales.com T: +44 161 257 2541 Fx: +44 161 225 8817  
Context Plus Ltd | PROGRESS HOUSE, NEWBY ROAD | HAZEL GROVE  
| STOCKPORT | | SK7 5DA | UK

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## **Addressable Heat Detector (A2S)**

**Part No 55000-485IMC**

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

### ***Communication protocol:***

XP95 pulse 5-9V

***Detector Type:*** Fixed Temperature Heat Detector (software algorithm may be used for Grade 1 response)

***Detector Principle:*** Linear approximation over temperature range 25°C to 90°C

***Sensor:*** Single NTC Thermistor

***Sampling Frequency:*** Continuous

***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)

***Supply Voltage:*** 17 to 28 Volts dc

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**Modulation Voltage at Detector:** 5

to 9 Volts peak to peak

**Quiescent Current:** 300 $\mu$ A

**Power-up Surge Current:** 1mA

**Duration of Power-up Surge**

**Current:** 0.3 seconds

**Maximum Power-up Time:** 4 secs

**Storage Temp:** -30°C to +80°C

**Operating Temp:** -20°C to +70°C

**Analogue Value at 25°C** 25 $\pm$  5

counts

**Alarm Level 55 Counts:** 55°C

**Alarm Indicator:** Red light  
emitting diode (LED)

**Alarm LED Current:** 4mA

**Remote LED Current:** 4mA at 5V  
(measured across remote load)

**Type Code:** (210 43) 110 00

**Sensitivity:** 25°C to 55°C:

1°C/Count. -20°C returns 8 counts

**Guaranteed Temp. Range (No  
condensation or icing):** -20°C to  
+70°C

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

**Wind Speed:** Unaffected in fixed  
temperature use

**Atmospheric Pressure:**

Unaffected

**Vibration, Impact & Shock:** To

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EN54 Pt 5 (BS5445 Pt 5)

**IP Rating:** 53

**Dimensions:** (diameter x height)

Detector: 100mm x 39mm

Detector in Base: 100mm x 47mm

**Weights:** Detector: 100g; Detector  
in Base: 157g

**Materials:** Detector Housing: White  
polycarbonate V-0 rated to UL 94;  
Terminals: Stainless Steel

## DEVICE RESPONSE

**Type:** Flaming with high heat output

**Response:** Moderate/good

**Type:** Flaming - clean burning

**Response:** Moderate/good

**Type:** Flaming combustion

**Response:** Poor

**Type:** Overheating/thermal combustion

**Response:** Very poor

**Type:** Smouldering/glowing combustion

**Response:** Very poor

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