



Part Number 55000-400IMC

Standard Temperature Detector



Part Number 55000-401IMC **High Temperature Detector**

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

Standard Temperature Detector, XPERT style, 55000-400IMC High Temperature Detector, XPERT style, 55000-401IMC



0832

Context Plus XP95 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: 55000-400IMC) enables the detector to be utilised as an EN54 Grade 2 heat detector.

To provide a device for use in ambient temperatures of up to 55°C, a high temperature detector (part no: 55000-401IMC) is also available. This has similar characteristics to the standard temperature detector at 25°C but reaches a 55° count (alarm) at 90°C.

Technical Data

Standard temperature detector Detector Part No 55000-400 IMC

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

Communication protocol: Apollo 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)

remote indicator positive connection (internal $2.2k\Omega$) resistance to supply +ve)

remote indicator negative connection (internal $2.2k\Omega$ resistance to supply - ve)

Supply Voltage: 17 to 28 Volts do **Modulation Voltage at Detector:** 5 to 9 Volts peak to peak

Quiescent Current: 250µA average, 500µA peak

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± 5 counts

Alarm Level 55 Counts: 55°C **Alarm Indicator:** Red light

emitting diode (LED)

Alarm LED Current: 2mA

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

Type Code: (210 43) 110 00

Sensitivity: 25°C to 90°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 EN54 Pt 5 2001 (BS5445 Pt 5 2001)

IP Rating: 53

Dimensions: (diameter x height)

Detector: 100mm x 42mm Detector in Base: 100mm x 50mm

Weights: Detector: 105g; Detector

in Base: 157g

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

High Temperature Detector Detector Part No: 55000-401 IMC

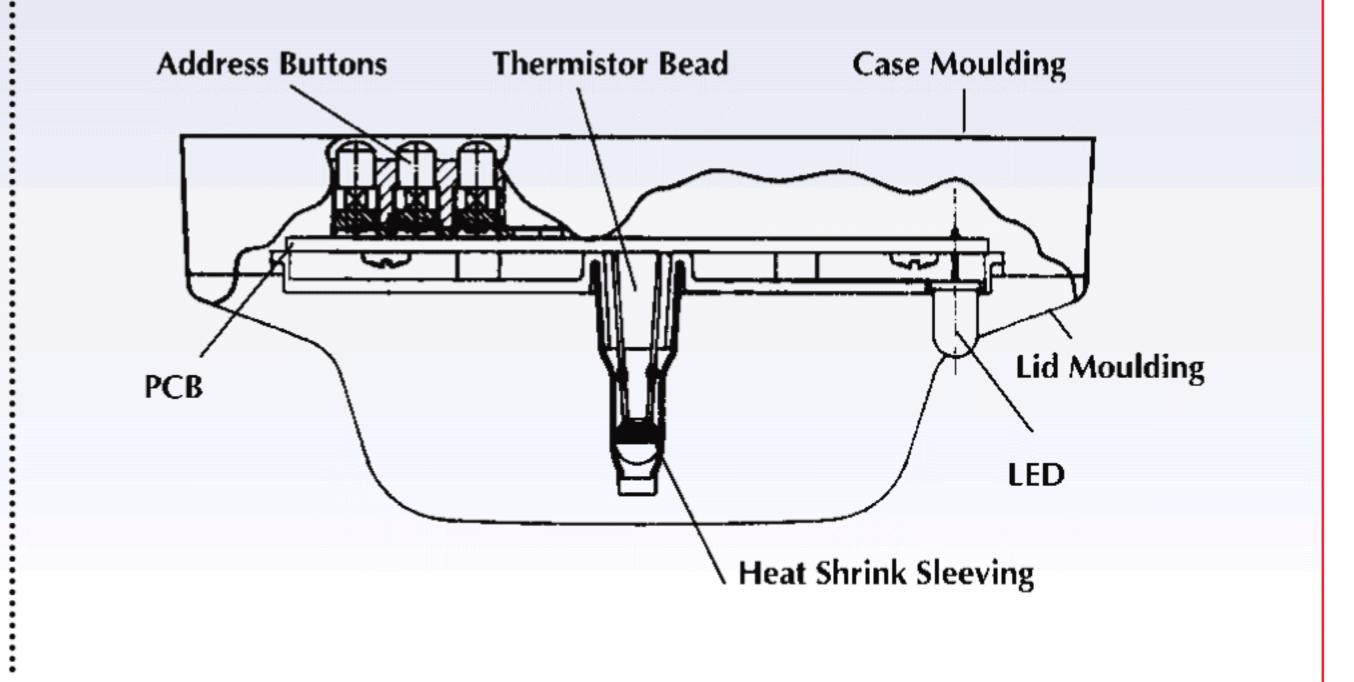
Specifications are the same as those for the standard temperature detector described above, apart from the following points:

Detector Type: Fixed Temperature

Detector Principles: Linear approximation designed to give 25 counts at 25°C and 55 counts at 90°C

Guaranteed Temp. Range (No condensation or icing): -20°C to +120°C

Sensitivity: 25°C to 90°C: 2·17°C/ Count -20°C returns 20 counts



Sectional view - Temperature (Heat) Detector