Product Description
The PRECISION Heat Detector provides combined fixed heat and rate of rise detection. This combination makes it suitable for use in harsh environments where elevated and fluctuating temperatures are considered normal, such as kitchens, laundries and boiler rooms.

The Heat Detector is designed for use with the PROACTIV Fire Alarm Control Panel (FACP) System. The detector has a similar physical profile to the Ionization and Photoelectric smoke detectors, including two indicating LEDs, but has a low airflow resistance case allowing ambient air to flow freely to the temperature sensor.

Function
The PRECISION Heat Detector can operate in five (5) different modes and are easily programmable from the PROACTIV FACP. The detector can report three (3) alarm conditions: ALERT, ACTION and ALARM.

The five modes each provide a different response behavior making the detector suitable for a range of applications. All modes incorporate a fixed temperature response where the detector raises an alarm when the selected temperature is reached. In addition, two of the five modes support rate-of-rise response, allowing the detector to respond rapidly to sudden increases in temperature.

Features
- Distributed Intelligence Architecture
- Five (5) individually programmable operating modes
- Three (3) alarm levels
  - Alert
  - Action
  - Fire Alarm
- False alarm rejection
- Automatic drift compensation
- Dual LED status indicators
- Optional remote LED
- Fits 4 and 6 inch universal mounting bases
- PRECISION SLC device
  - Style 4, 6 or 7 wiring
  - Analog addressable
  - Priority Alarm reporting
  - Secondary conventional alarm reporting
Heat Detector

Operation

The Heat Detector uses a single thermistor to sense the ambient air temperature at the detector position. The reading at the thermistor is converted to a digital format, which is processed to provide a digital value for transmission to the PROACTIV FACP when the device is polled.

The detector has two integral LED indicators, which can be illuminated by the FACP to indicate that the device is in alarm. The detector can be programmed to flash each time the device is polled.

If communication with the FACP is interrupted, the detector automatically switches to its conventional alarm reporting mode. When a fire is detected, the detector imposes an alarm signal on the SLC which is received by the FACP.

Ordering Information

**PRECISION Devices**

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**Note:** Not all of the above products are available in all regions. Consult your local distributor or Xtralis office for more information.

Specifications

**Device Type**

PRECISION device

**PRECISION SLC**

Universal wiring bases support NFPA 72 Style 4, 6 and 7. Style 7 requires the use of isolators

**Operating voltage**

24 VDC

**Standby current**

350 µA average

**Alarm current, LED illuminated**

3.35 mA

**Alarm indicator**

2 red Light Emitting Diodes (LEDs)

Optional remote LED

**Operating Temperature**

32°F to 140°F (0°C to 60°C)

**Humidity**

0 to 95% RH

**Dimensions**

4 inch (100 mm) diameter
1.7 inch (42 mm) height
2 inch (50 mm) (height in base)

**Weight**

Detector 3.7 oz (105 g)

**Note:** Specifications are typical at 24 V, 23°C and 50% relative humidity unless otherwise stated.