

## AS2020-00 & AS2021-00

Fixed Temperature / Rate-of-Rise Heat Detector



### Standard Features

- Choice of fixed temperature / rate-of-rise 135°F or 190°F heat detector.
- UL Listed spacing up to 60' by 60'
- 2 or 4 wire base compatibility, relay bases available
- Highly stable operation, RF/Transient protection
- Low standby current, 35µA nominal
- Two built-in power/alarm LED's for 360° viewing
- Fully electronic operation
- Power/alarm LED's confirm detector status
- Compatible with Avenger detectors and their bases

### Application

The AS2020 & AS2021 fixed temperature / rate-of-rise heat detector are suited for installation where high heat output fires are expected or in areas where ambient conditions would not allow use of other detection methods. Heat detectors are intended for protection of property. Do not rely on heat detectors for life safety protection. Where life safety is a concern, smoke detectors must also be used. A UL listed fire alarm panel must electronically supervise the AS2020 & AS2021 heat detectors.

All conventional devices are mechanically compatible with Avenger bases. Please check individual panel listings for appropriate listed bases

### Operation

The AS2020 & AS2021 fixed temperature / rate-of-rise heat detectors are suited to detect in the presence of slow or fast rising temperatures due to burning combustibles.

The construction of these models incorporate a thermistor heat element protected from damage by the built-in, durable plastic guard. These electronic heat detectors incorporate two power/alarm LED's for 360° indication of status. In standby condition the power LED's flash Green. In an alarm condition the LED's latch on Red. The AS2020 & AS2021 electronic heat detection circuitry performs the same function as a Mechanical Device but with Electronic Precision. If the heat rise is less than 12°/minute the detector will not alarm until it reaches its alarm temperature (135° or 190° ± 7.5°F). If the heat rise is greater than 12°/minute the detector will alarm immediately giving an early warning signal and latching the Red alarm LED's on.

### Ordering Codes

Part Number	Response
AS2020-00 - Temperature → 135° ± 7.5°F	
AS2021-00 - Temperature → 190° ± 7.5°F	

### Technical Specifications

**Supply Voltage:** 17.7 - 30.0 VDC (4 Wire)

**Supervisory Current:** 40µA @ 24 VDC

**Surge Current:** 160µA max. @ 24 VDC

**Alarm Current:** 150mA max. @ 24 VDC

**Ambient Temperature:** 32°F to 120°F

**Contact Rating N/O Contacts:** 150mA max. @ 24 V

**Color & Case Material:** Bone PC/ABS blend

#### Note:

**Bases are not included with detectors, please order separately.**