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## Specifications

Model HI921 is a plug-in, (2) two-wire thermal (heat) detector, compatible with Model FC9-series FACP's. Each Model HI921 detector has microcomputer-chip technology and highly stable, solid-state electronic circuitry.

The Model HI921 detector utilizes a modern, accurate and shock-resistant thermistor to sense temperature changes.

This electronic-sensing method virtually eliminates thermal lag associated with mechanical temperature-sensing devices, and provides almost instantaneous temperature status to the FACP.

Model HI921 provides seven (7) field-selectable, pre-programmed temperature settings:

- Fixed 135°F (57°C)
- Fixed 145°F (63°C)
- Fixed 155°F (68°C)
- Fixed 165°F (74°C)
- Fixed 174°F (79°C)
- Rate-of-Rise: 15°F / min. (8.3°C) at fixed 135°F (57°C)
- Rate-of-Rise: 15°F / min. (8.3°C) at fixed 174°F (79°C)

Additionally, the Model HI921 detector has the following optional feature:

- Model HI921 provides indication of potential water freezing for sprinkler systems, via configuration for reporting a low-temperature warning of 40°F (4.4°C). This feature is compatible with Models FC922 and FC924.

## Technical Data

### Operating

**Temperature Range:** +32°F (0°C) to 100°F (38°C)  
[with 135°F (57°C) alarm-threshold setting]

**Relative Humidity:** 0-95%; non-condensing

**Air Pressure:** No effect

**Input Voltage Range:** 16VDC – 30VDC

**Alarm Current (max.):** 410µA

**Standby Current (max.):** 250µA, max. (average)

**Maximum Spacing:** 50-foot centers (2,500 sq. ft.), per NFPA 72 and UL C5524 pending

### Thermal Rating:

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### Detector Weight:

0.317 lbs.  
(0.144 kg.)