Intelligent Detection Devices

Intelligent Thermal Detector
Model HFPT-11

**ARCHITECT AND ENGINEER SPECIFICATIONS**

- Polarity insensitive utilizing SureWire™ technology
- Multi-color light-emitting diode (LED) that illuminates to communicate detector status
- Innovative technology provides high-speed, fault-tolerant system / detector communications
- Compatible with device programmer / tester unit
  - Model DPU
- Detectors are self-testing
  - Complete diagnostics every four seconds
- Microprocessor-based design
- Rate compensated
- Two-wire operation

**Specifications**

Model HFPT-11 is a plug-in, (2) two-wire thermal detector, compatible with the following Siemens fire-alarm control panels (FACPs) –

- SIEMENS Modular panels
- Up to 50-points' addressable panel:
  - Model FC2005 (FIRE) | FV2005 (VOICE)
  - Model FC901 (FIRE) | FV901 (VOICE)
- Up to 252-points' addressable panel:
  - Model FC2025 (FIRE) | FV2025 (VOICE)
  - Model FC922 (FIRE) | FV922 (VOICE)
- Up to 504-points' addressable panel:
  - Model FC2050 (FIRE) | FV2050 (VOICE)
  - Model FC924 (FIRE) | FV924 (VOICE)
- FireFinder® XLS | XLSV

Prior to detector installation.

Model HFPT-11 is @Underwriters’ Laboratory and @Underwriters’ Laboratory of Canada listed.
Specifications – (continued)

Model HFPT-11 detectors utilize 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 information to the FACP. Model HFPT-11, in its default mode, provides up to 135°F (57.2°C) rate-compensated temperature.

Model HFPT-11 can be programmed from the FACP as a fixed-temperature detector without rate-of-rise, at the user's option. Additionally, Model HFPT-11 detector's microprocessor uses an integral Electrically Erasable Programmable Read-Only Memory (EEPROM) to store the detector's address.

Communications within the detector, along with transmission between Model HFPT-11, the networked FACP, or with Model DPU, are supervised and safeguarded against disruption by reliable, microprocessor-based error checking routines. Additionally, the microprocessor supervises all EEPROM memory locations, and provides a high degree of EEPROM failure-fault tolerance.

Model HFPT-11 is listed as a self-testing device. Model HFPT-11's visible light emitting diode (LED) flashes GREEN every four seconds to indicate it is communicating with the FACP, as well as to show it has passed its internal self-test. Should the detector sense a fault or failure within its communications, the LED will flash AMBER, and the detector will transmit that information to the FACP.

A quick visual inspection is sufficient to indicate the condition of the detector at any time. If more detailed information is required, a printed report can be provided from the Siemens Modular or a FireFinder XLS panel indicating the status and settings assigned to each individual detector.

When Model HFPT-11 moves to the Alarm mode, it will flash RED and continue flashing until the FACP is reset. At that same time, any user-defined system alarm functions programmed into the system are activated.

Model HFPT-11 detector is compatible on the same Siemens Modular or on a FireFinder XLS initiating circuit with other Model H-series detectors; Model HMS manual stations; Model HTRI-series addressable interfaces, or Model HZM-series addressable, conventional zone modules.

Model HFPT-11 detectors use a surface-mounting base, (Model DB-11), which mounts on a 4-inch (10.2 cm.) octagonal, square or single gang electrical box. Relay base Model DB2-HR mounts to a 4-inch (10.2 cm.) square-deep electrical box.

Audible base Model ABHW-series also mounts to a 4-inch (10.2 cm.) square-deep electrical box. Model DB-11 as well as Models DB2-HR and ABHW-series detectors use screw-clamp terminals for all electrical connections and self-wiping contacts for reliability. The bases also contain a provision for an optional, concealed locking mechanism to prevent unauthorized removal of the detector head, Model LK-11.

Application Data

The Siemens 50, 252 and 504-point addressable panels – as well as Siemens Modular and the FireFinder XLS/FPCPs – use loop circuits. Each circuit is capable of supporting up to 252 Model HFPT-11 Intelligent Detectors.

Locate Model HFPT-11 on the ceiling (at least 4 inches from the side walls). For an ideal, smooth ceiling condition, place the detectors at a maximum center spacing of 50 feet (2,500 square feet), 25 feet from side walls or room partitions. For FM-approved installations, Model HFPT-11 has an RTI rating of ‘FAST.’ Use a maximum center spacing of 25 feet (625 square feet), 12.5 feet from side walls or room partitions.

Technical Data

Operating Temperatures: 32°F (0°C) to 100°F (38°C), per @UL 269 / 268A

Thermal Rating:
- Fixed-temperature set point: 135°F (57°C)
- Rate-of-Rise Detection: 15°F / min. (8.3°C / min)

Relative Humidity: 0-93%, non-condensing

Maximum Spacing:
- 50-feet Centers (2500 Square Feet)
- 25-feet Centers (625 Square Feet)

Current Draw: 0.8mA in Alarm or Supervisory mode

Details for Ordering

In Canada, order:

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB-11</td>
<td>500-095687</td>
<td>Detector Mounting Base for Series 11 Detectors (ULC Listed)</td>
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Mounting Diagram

Notice: This marketing data sheet is not intended to be used for system design or installation purposes. For the most up-to-date information, refer to each product's installation instructions.