
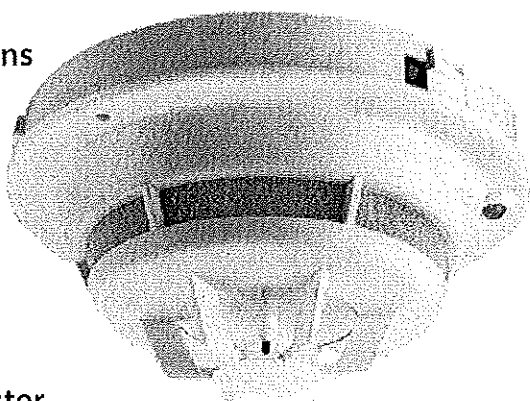


# FireFinder XLS & FS-250 Control Panels

## Intelligent Thermal Detector Model HFPT-11

### ARCHITECT AND ENGINEER SPECIFICATIONS

- Microprocessor-based design
- Rate compensated
- Innovative technology provides high-speed, fault-tolerant system / detector communications
- Multi-color detector status LED
- Polarity insensitive utilizing *SureWire*<sup>™</sup> technology
- Detectors are self-testing:  
Complete diagnostics every four seconds
- Two-wire operation
- Compatible with DPU device programmer / tester unit
-  UL and  ULC Listed;  
FM, CSFM & NYMEA Approved





### Product Overview

Model HFPT-11 Intelligent Thermal Detector provides an advanced method of detection, address programming and supervision – combined with sophisticated control-panel communication. Model HFPT-11 uses a state-of-the-art thermistor that provides up to 135°F (57.2°C) rate-compensated temperature.

The Intelligent Thermal Detector is compatible with the Device Program / Test Unit (Model DPU). Model DPU is a compact, portable and menu-driven accessory that makes programming and testing detectors faster, easier and more reliable than other methods.

Model DPU eliminates the need for cumbersome, unreliable mechanical-programming methods, and reduces installation and service costs, via electronically programming addresses and functionally testing the HFPT-11's performance before the detector is installed.

The HFPT-11 thermal detector is  Underwriters' Laboratory and  Underwriters' Laboratory of Canada listed.

### Specifications

Model HFPT-11 is a plug-in, (2) two-wire thermal detector, compatible with the FireFinder XLS and FS-250 families of control panels. Each Model HFPT-11 detector has microcomputer-chip technology and highly stable, solid-state electronic circuitry.

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 control panel. Model HFPT-11, in its default mode, provides up to 135°F (57.2°C) rate-compensated temperature.

FireFinder XLS and FS-250 Control Panels **6302**

## Specifications – (continued)

Model HFPT-11 can be programmed from the control panel as a fixed temperature detector without rate-of-rise, at the user's option.

Model HFPT-11 detector's microprocessor uses an integral EEPROM to store the detector's address. Communications within the detector itself and between the HFPT-11 and the control panel, 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 (4) seconds to indicate it is communicating with the control panel, and to show it has passed its internal self-test. Should the detector sense a fault or failure within its systems, the LED will flash amber, and the detector will transmit that information to the control panel.

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 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 control panel is reset. At that same time, any user-defined system alarm functions programmed into the system are activated.

A Device Program / Test Unit (Model DPU) is used to program and verify the detector's address. The user selects the program mode to enter the desired address. The DPU Programmer / Test Unit then automatically sets / verifies the address, as well as tests the detector.

Model DPU has rechargeable batteries, which allows a detector's address to be programmed by the user from the most convenient location. The user can also separately test the detector for functionality.

When the user selects the test mode, a series of tests are automatically conducted and the user is informed whether the detector has passed or failed.

Model HFPT-11 detector is compatible on the same FireFinder XLS or FS-250 initiating circuit with other H-series detectors, HMS manual stations, HTRI-series addressable interfaces, or HZM-series addressable, conventional zone modules.

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

Audible base Model ADBH-11 also mounts to a 4-inch-square-deep electrical box. Model DB-11 as well as Models DB-HR and ADBH-11 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

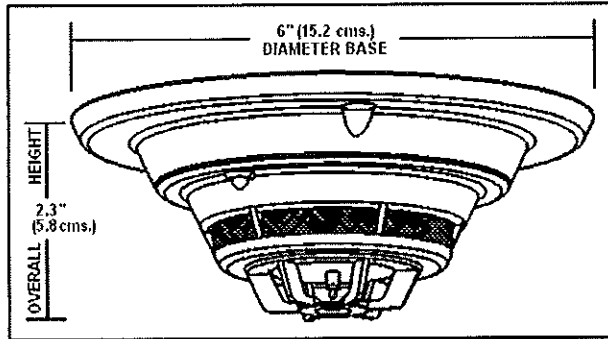
The FireFinder XLS and FS-250 control panels use loop circuits with each circuit capable of supporting up to 252 Model HFPT-11 intelligent detectors.

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 a RTI rating of 'FAST.' Use a maximum center spacing of 25 feet (625 square feet), 12.5 feet from side walls or room partitions.

Actual job conditions and sound engineering judgment must determine detector spacing. Consider environmental factors including ambient temperature fluctuation, and the nature of the fire hazard. Room or area configuration and ceiling type (sloped or flat, smooth or beamed) also dictates placement.

Should questions arise regarding detector placement, follow the drawings provided and / or approved by Siemens Industry – Fire Safety Division or by its authorized distributors.

## Mounting Diagram



## Technical Data

Operating Temperatures:	+32°F (0°C) to 100°F (38°C), per @UL 269 / 268A
Humidity:	0-93% Relative Humidity Non-condensing
Maximum Spacing:	50-foot Centers (2500 Square Feet)
FM-Approved Spacing:	25-foot Centers (625 Square Feet)
Current Draw:	1mA in Alarm or Supervisory mode

## Details for Ordering

Model Number	Part Number	Description
HFPT-11	500-033380	Addressable Thermal Fire Detector
DB-11	500-094151	Detector Mounting Base
DB-HR	500-033220	Relay Base
ADBH-11	500-033210	Audible Base
RL-HC	500-033230	Remote (red) alarm indicator-octogan box mount
RL-HW	500-033310	Remote (red) alarm indicator-single gang box mount
LK-11	500-695350	Base Locking Kit for Series 11 detectors

### In Canada Order:

Model Number	Part Number	Description
ADBH-11C	500-033210C	Audible Base (ULC)
HFPT-11C	500-033380C	Addressable Thermal Fire Detector (ULC)
DB-11C	500-095687	Detector Mounting Base (ULC)
DB-HR-C	500-033220C	Relay Base (ULC)

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**Notice:** This marketing catalog 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.

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Printed in U.S.A.

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**June 2010**  
Supersedes sheet dated 7/09  
(Rev. 2)