

## Product Overview — (continued)

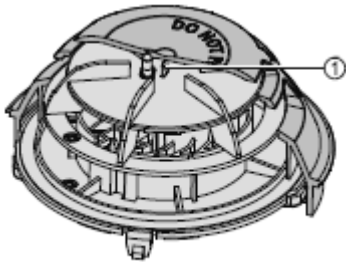
Each Model HI921 detector base also contains a provision for an optional, concealed locking mechanism to prevent unauthorized removal of the detector head (Model LK-11).

For proper operation of Model DPU, the technician selects the accessory's program mode, and enters the desired address. In turn, Model DPU automatically sets and verifies the address, as well as tests the detector. When in the 'test' mode, Model DPU will perform a series of diagnostic tests without altering the address or other stored data, allowing technicians to determine if the detector is operating properly.

Model DPU operates on AC power or rechargeable batteries, providing flexibility and convenience in programming and testing equipment from practically any location.

## Operation

Model HI921 also utilizes a modern, accurate and shock-resistant thermistor to sense temperature changes:



1 Thermistor

Each Model HI921 detector provides seven (7) pre-programmed parameter sets that can be selected by the FACP.

## Detector Supervision and Testing

Model HI921, which is listed as a self-testing device, contains a tri-color light emitting diode (LED) indicator, capable of flashing any one (1) of three (3) distinct colors: **Green**, **Yellow**, or **Red**. During each flash interval, the microprocessor-based detector monitors the following:

- Temperatures reaching programmed thresholds
- Internal sensors and electronics are functional

Based on the monitoring results, the LED indicator flashes the following colors based on the following conditions:

Flash Color	Condition	Flash Interval (in seconds)
<b>Green*</b>	Normal supervisory operation. Temperature has not reached programmed alarm thresholds or set points.	10
<b>Yellow:</b>	Detector is in trouble and needs replacement.	4
<b>Red:</b>	Alarm condition.	1
<b>No Flash:</b>	Detector is not powered.	— —

\* LED can be turned OFF.

Please follow the corresponding description of the panel used.

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 Model FC9-series FACPs indicating the status and settings assigned to each individual detector.

## Installation

All Model HI921 detectors use a surface-mounting base, Model DB-11 or Model DB-11E, which mounts on a 4-inch octagonal, square or single-gang electrical box. The base utilizes screw-clamp contacts for electrical connections and self-wiping contacts for increased reliability.

The Model DB-11 base can be used with the optional Model LK-11 detector locking kit, which contains 50 detector locks and an installation tool to prevent unauthorized removal of the detector head. Model DB-11 has decorative plugs to cover the outer mounting screw holes.

Model HI921 may be installed on the same initiating circuit with the Siemens Model 'H'-series detectors [when used with the Model FC9-series of FACPs] —

- Model HFP-11
- Model 'HMS'-series manual stations
- Model 'HTRI'-series interfaces
- Model HCP output-control devices
- Model 'HZM'-series of addressable, conventional zone modules

## Application Data

Installation of Model HI921 detectors requires a two-wire circuit. In many retrofit cases, existing wiring may be used. 'T-tapping' is permitted only for Style 4 (Class B) wiring. Model HI921 is polarity insensitive, which can greatly reduce installation and debugging time.

Model HI921 can be applied within the maximum 50-foot center spacing (2,500 sq. ft. areas), per <sup>®</sup>UL. This application guideline is based on ideal conditions, specifically, smooth ceiling surfaces, minimal air movement, and no physical obstructions between potential fire sources and the actual detector. Do not mount detectors in close proximity to ventilation or heating and air conditioning outlets. Exposed joints or beamed ceilings may also affect safe spacing limitations for detectors.

Should questions arise regarding detector placement, observe NFPA 72 guidelines. Good fire-protection system engineering and common sense dictate how and when fire detectors are installed and used. Contact your local Siemens — Fire Safety distributor or sales office whenever you need assistance applying Model HI921 in unusual applications. Be sure to follow NFPA guidelines and <sup>®</sup>UL Listed / <sup>®</sup>ULC Pending installation instructions — included with every Siemens — Fire Safety detector — and local codes as for all fire-protection equipment.