

# AVENGER





Avenger Systems is an independently owned fire detection and suppression company based in the United States and operating in most regions around the world. Avenger systems is committed to providing our customers with the highest quality, cost-effective products solutions and excellent customer service while focusing on our customers, strategic partners, employees and state of the art technologies.

Avenger Systems is a progressive and reliable alternative offering an overall superior fire detection and suppression systems with excellent local supports.

**Our Vision:** Avenger Systems was founded with the passion, vision and determination to offer our customers a cost effective superior quality fire detection and suppression systems solutions with clients supports that exceed most companies expectations. Our foundation is truly our people.

**Our Culture:** Avenger Systems corporate culture fosters creativity, hard work, collaboration and success.

**Our Technology:** Building on our past success in the fire and suppression markets we adopted state of the art technologies to enable our customers to compete in all type of projects from small to the very large with easy to learn, configure and use software.



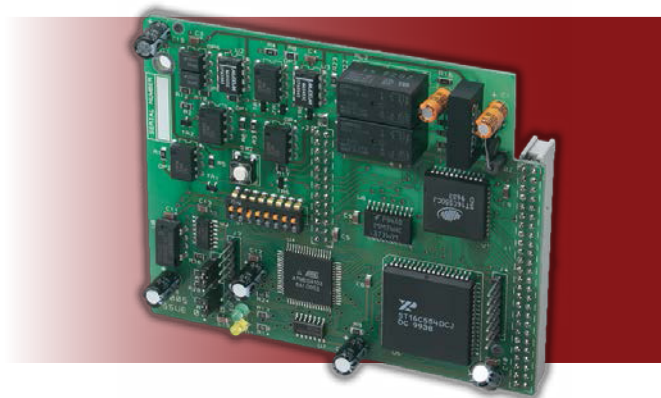


## Supreme RS-H

Analog Addressable Fire Control Panels  
(1 or 2 Loops) (Hochiki Protocol)

### Standard Features

- One full SLC circuit expandable to two
- 3 programmable relays
- 5.25A power supply
- Large graphic display
- Real time clock
- Compatible with eMATRIX graphics annunciator
- Powerful, network wide cause and effects (500 total). Fully user programmable by point or zone.
- Can be networked with additional RS and/ or Supreme control panels
- Compatible with eVIEW Annunciator
- Programmable through a PC connection to the panel
- Same look and feel as Supreme range
- Stores 1000 last events in history log
- Model ranges include with or without a Dual-Line internal DACT
- Compact, stylish enclosure
- Available in Red or Gray
- 2 Programmable NAC circuits with internal synchronization support.



## eNET

Supreme Networking

### Standard Features

- Up to 64 nodes
- High integrity protocol when wired Class A
- Fully secure against short or open circuit faults
- Simple 2-wire loop connection
- Supports open ended networks for retrofit applications
- Network wide test and disablement functions
- Network wide cause and effect logic
- Flexible configuration options
- Panels configurable to act on network events or not as required



## Supreme-H

Analog Addressable Fire Control Panels  
(2 or 4 Loops)(Hochiki Protocol)

### Standard Features

- UL 864 9th Edition listed
- Multi-Loop 2 Analog Addressable Loops Field upgradable to 4
- We can use 254 address points
- Powerful, network wide cause and effects (500 total). Fully user programmable by point or zone.
- Up to 800 points per panel when using devices and sub-points
- Up to 10,000 ft. wiring length on SLC loop
- 64 Panels on a network
- Programmable through a PC connection to the panel, or through keypad
- Programmable on-board relays – 5
- Supervised Powered Outputs – 3
- Programmable Notification Appliance Circuits: 4
- Power per NAC: 1.6 Amps Max
- Programmable outputs on SLC loop
- Programmable Function button on front display
- Fire Drill button on front display
- Day and night sensitivity settings (user programmable)
- Power Supply: 5.25 Amp, regulated & integrated
- LCD Display: 8x40
- Zonal Mode: Annunciation by zone w/o individual relationships
- Panel Ring Modes: Common, Zonal, Stage 2
- NAC Outputs programmable as Continuous, March, Temporal
- Program Cause and Effects AND, OR, or Any Two (Cross Zone)
- Battery size: Up to 17 Ah in standard enclosure; up to 52 Ah with external cabinet
- Access levels: 3
- Access key switch: Yes
- Recognized for use in High Rise
- One man walk test – Fire Test Mode
- Available with semi flush trim ring
- Available in Red or Gray





## eVIEW

Analog Addressable  
Serial Annunciator

### Standard Features

- Available in Red or Gray
- Up to 15 annunciators can be connected to each Supreme or Supreme RS fire control panel
- Large liquid crystal display (240 x 64 pixels)
- High brightness LED indications
- Internal sounder
- Replicates all panel controls (Supreme)
- Simple, two-wire serial connection
- Small, Supreme style enclosure
- Removable electronics for easy installation
- 24V DC powered
- Low power consumption
- Multi language options
- Connection supervised by Supreme fire control panel
- Recess mounting using optional AS1173 kit



## AS2011-00

Photoelectric Smoke Sensor

### Standard Features

- Low Profile - Only 2.0" high, including base
- Simple and reliable device addressing
- Automatic compensation for sensor contamination
- Built-in fire test feature
- Uses the noise-immune Digital Communication Protocol (DCP), which utilizes interrupts for fast response to fires
- Two built-in power/alarm LEDs
- Programmable non-polling LEDs
- Non-directional smoke chamber
- Vandal resistant security locking feature
- Removable smoke labyrinth for cleaning or replacement



## eMATRIX

Configurable Floor Plan Mimic  
Annunciator

### Standard Features

- Available in Red or Gray
- Up to 504 LED's can be controlled from any Supreme panel
- Select up to 12 printed colors (not including background and building outline)
- Available in a range of standard enclosures to suit any application
- Custom sized units can be made upon request
- Choice of Red, Green or Yellow LED's
- eMATRIX can easily be upgraded on site with minimal cost and effort
- UL 864 9th edition listed



## AS2010-00

Fixed Temp/ Rate of Rise Heat Sensor

### Standard Features

- Low Profile - Only 2.0" high, including base
- Simple and reliable device addressing method
- Uses the noise immune Digital Communication Protocol (DCP), which utilizes interrupts for fast response to fires
- Rate of Rise temperature threshold = 15°F/Min (determined by panel)
- Adjustable threshold temperature = 135°F - 190°F (determined by panel)



## AS6002-00 & AS6013-00

Fast Response Contact Modules

### Standard Features

- Fast, reliable contact monitoring utilizing the Avenger systems DCP (Digital Communications Protocol)
- Two different mounting configurations
- 127 devices can be used per DCP loop
- Bi-colored indicating LED provides module status (AS6002 only)
- Single input contact monitor
- Can be programmed to monitor Normally Open (NO) or Normally closed (NC) contacts
- Operates on Class A or Class B SLC loop



## AS6024-00

Fast Response Contact Modules

### Standard Features

- Single input contact monitor
- Fast, reliable contact monitoring utilizing the DCP (Digital Communications Protocol)
- 127 devices can be used per DCP loop
- Can be programmed to monitor Normally Open (NO) or Normally Closed (NC) contacts
- Operates on Class A or Class B SLC loop
- Accepts up to 14 AWG wire



## AS6020-00 & AS6021-00

with Short Circuit Isolator  
Fast Response Contact Modules  
(Class A Wiring)

### Standard Features

- Single input contact monitor
- Fast, reliable contact monitoring utilizing the DCP (Digital Communications Protocol)
- Two different mounting configurations
- 127 devices can be used per DCP loop
- Bi-colored indicating LED provides module status (Both Models)
- Yellow LED indicates a short circuit condition (AS6021-00 only)
- Can be programmed to monitor Normally Open (NO) or Normally Closed (NC) contacts in Class B
- Operates on Class A or Class B SLC loop
- Accepts up to 14 AWG wire



## AS6003-00

Short Circuit Isolator

### Standard Features

- Can be placed at any location on SLC loop
- Checks the line for short circuit at power up; if the line is normal, the relay will be returned on. If a line short is detected, the relay remains open
- Indication of short circuit by a yellow LED

## AS6040-00 & AS6041-00

with Short Circuit Isolator  
Supervised Output Modules  
(Class A Wiring)

### Standard Features

- Built-in SCI circuitry (AS6041-00 only)
- Flexible application
- Quick response to emergency conditions
- Operation parameters are maintained by the module, and individual communication with the control system during emergency conditions is not required
- Contacts are rated 2.0 Amps @ 24VDC
- Programming is highly flexible providing 16 priority states plus zoning capability
- Programmed device output is turned off, silenced, or programmed to output the selected pattern



## AS6007-00

Dual Input Monitor Module

### Standard Features

- Fast, reliable contact monitoring utilizing the Avenger systems (Digital Communications Protocol)
- 127 devices can be used per DCP loop
- Bi-colored indicating LED provides module status
- Dual input contact monitor
- Can be programmed to monitor Normally Open (NO) or Normally Closed (NC) contacts
- Operates on Class A or Class B SLC loop
- Accepts up to 14 AWG wire
- Mounts to 4" square gang box



## Dual Relay Modules

### AS6052-00

Low Voltage

### AS6053-00

Low Voltage w/Isolator

### AS6054-00

High Voltage

### AS6055-00

High Voltage w/Isolator

### Standard Features

- Provides two independently configurable Form C contacts per address
- Contacts are rated as follow:  
AS6052/ AS6053: 2A @ 30 VDC / 0.5A @ 120 VAC  
AS6054/ AS6055: 8A @ 30VDC / 4.8A @ 250 VAC
- Up to 127 devices can be used on each SLC loop
- Visible Bi-colored LED is software controlled and can be programmed to blink red or green when polled. The LED can be latched on when activated. (For All Models)
- Yellow LED indicates a short circuit condition (AS6053 & AS6055 only)
- Programming is highly flexible providing 16 priority states plus zoning capability
- Operates on Class A or Class B SLC loop







## VF6006-00

Solenoid Releasing Module

### Standard Features

- Solenoid output with supervision for open and short circuit conditions. Check on supervised status occurs upon receipt of an A-D command
- Output relay rated to supply 2A @ 30 VDC for the solenoid load
- Addressable FET switch used to control output for extra security in releasing functions
- Activation pulse time from 5-30 minutes in 5 minute intervals
- Visible Bi-colored LED is software controlled and is Red when the Module is active and Green when normal. The LED can be latched on when activated
- Programmed with DCP expansion mode commands or with a handheld programmer



## AS6011-00

Conventional Zone Module

### Standard Features

- Provides an address point for a zone of up to 25 conventional smoke detectors
- Blinks green when polled. Latched on red (controlled by panel) when activated
- Device address can also be programmed with a handheld programmer. Device address- ranges from 1 to 127
- Compatible with Class B (Style B) and Class A (Style D) wiring
- Auxiliary power source provides power for the zone of detectors
- Compatible with conventional Avenger systems detectors

## Supreme XT

Releasing  
Fire Control Panels

### Standard Features

- UL 864 and FM approved
- Three detection zones as standard
- Any single zone or any combinations of zones can be configured to release
- Configurable first stage NAC delays
- Configurable detection delays
- Zero time delay upon manual release option
- Non-latching zone input option to receive signals from other systems such as aspirating equipment
- Configurable releasing delays up to 60 seconds in 5 second steps
- Configurable releasing duration up to 5 minutes in 5 second steps
- Countdown timer shows time remaining until release
- Supports up to seven, four wire status indicators
- Built in Extract Fan control
- Compatible with conventional detectors from Apollo, Hochiki America and System Sensor





## VoiceAlert

Voice Evacuation System

**VF97XX-X0** Master Panel

**VF97XX-X0** Distributed Panel

### Standard Features

- True Multiplex 6 Channel Distributed Audio
- Integrated Fire Phone, Area of Rescue and Fan & Damper Control capability
- Modular System - components added as needed
- Integrated 2 Channel Digital Message Repeater
- Live Microphone Page to any zone
- Fast RS-485 Communication Protocol
- Easy Installation and Operation
- Natural Sound Voice Recordings
- Built in Alarm and Alert Signals
- Up to 4 Minute Message Capacity
- Works with 12VDC or 24VDC Fire Alarm Panel
- Listed with for use with the Supreme FACP
- 3 Minute Message Restart on Microphone Key
- Fully Supervised



## Supreme RSM

Analog Addressable

2 Loop Marine Fire Control Panel

Hochiki Protocol

**VF0820-1M**

**VF0820-4M**

### Standard Features

- Two full SLC loops allowing 254 primary addresses
- 3 programmable relays
- 5.25A power supply
- Large graphic display
- Real time clock
- Compatible with eMATRIX graphics annunciator
- Powerful, network wide cause and effects (500 total). Fully user programmable by point or zone.
- Can be networked with additional RSM and/ or Supreme control panels
- Compatible with eVIEW Annunciator
- Programmable through a PC connection to the panel
- Same look and feel as Supreme range
- Stores 1000 last events in history log
- Compact, stylish enclosure
- Available in Red or Gray
- 2 Programmable NAC circuits with internal synchronization support.





## AS2032-00

PHOTOELECTRIC SMOKE DETECTOR

### Standard Features

- UL Listed, FM Approved, CSFM Approved
- Low profile - only 2.00" high, including base
- 2 or 4 wire base compatibility, relay bases available
- Highly stable operation, RF/transient protection
- Low standby current, 45°A at 24VDC
- Two built-in power/alarm LEDs
- Non-directional smoke chamber
- Vandal resistant security locking feature
- Removable smoke labyrinth for cleaning or replacement
- Highly resistant to false alarms caused by steam



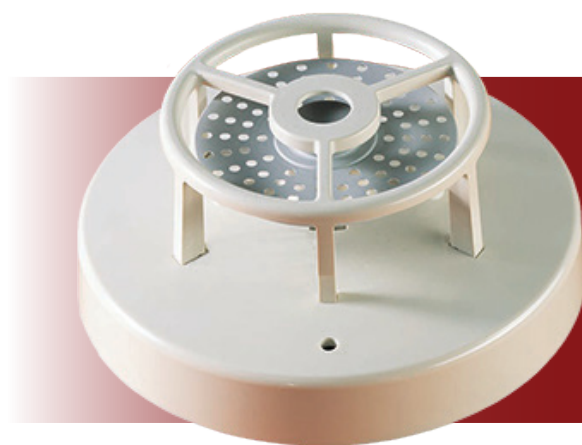
## AS2020-00 /

## AS2021-00

FIXED TEMPERATURE AND RATE OF RISE  
HEAT DETECTOR

### Standard Features

- UL Listed, FM Approved, CSFM Approved
- Available models: 135°F fixed temperature/rate of rise (AS2020-00) or 190°F fixed temperature/rate of rise (AS2021-00)
- UL Listed spacing up to 60 feet by 60 feet
- 2 or 4 wire base compatibility, relay bases available
- Highly stable operation, RF/transient protection (reduces false alarms)
- Two built-in power/alarm LEDs confirm detector status (360°viewing)
- Compatible with Avenger Systems detectors and their bases



## AS2036-00 /

## AS2037-00

FIXED TEMPERATURE HEAT DETECTOR

### Standard Features

- UL Listed, CSFM Approved
- Available models: 135°F fixed temperature (AS2036-00) or 190°F fixed temperature (AS2037-00)
- UL Listed ceiling spacing of 50 feet by 50 feet
- Self-restoring
- Contact rating of 100mA
- Latching LED base available



## AS2041-00

PHOTOELECTRIC / HEAT DETECTOR

### Standard Features

- UL Listed, FM Approved, CSFM Approved
- 135°F fixed temperature heat sensor (Latching)
- Heat Sensor protected by a built-in guard
- Highly stable operation, RF/transient protection (reduces false alarms)
- Two built-in power/sensitivity supervision/alarm
- LEDs confirm detector status (360°viewing)
- Non-directional smoke chamber
- Vandal resistant security locking feature
- Removable smoke labyrinth for cleaning or replacement
- Compatible with Avenger Systems detectors and their bases



## AS3031-10

Single Action w/ Hex Screw (H)

### Standard Features

- UL Listed, CSFM Listed
- Metal construction
- Bi-colored status LED indicates Standby and Alarm conditions
- Single Action with hex key lock
- Enclosed switch with glass rod (included)
- Terminals accept up to 14AWG wire
- Surface mount back box available



## AS3032-10

Single Action w/ Key Lock (H)

### Standard Features

- UL Listed, CSFM Listed
- Metal construction
- Bi-colored status LED indicates Standby and Alarm conditions
- Single Action with key lock
- Enclosed switch with glass rod (included)
- Terminals accept up to 14AWG wire
- Surface mount back box available



## AS3029-10

Dual Action w/ Key Lock (H)

### Standard Features

- UL Listed, CSFM Listed
- Metal construction
- Bi-colored status LED indicates Standby and Alarm conditions
- Dual Action with key lock
- Enclosed switch with glass rod (included)
- Terminals accept up to 14AWG wire
- Surface mount back box available



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