



Features (base system)

- Ideally suited for Fire Alarm, Clean Agent Suppression, Carbon Dioxide Suppression, and Sprinkler/Pre-Action Fire Detection and Control Systems
- Digital Communication Protocol with addressable devices and sensors to increase communication reliability and immunity to noise
- Response time of less than 3 seconds for fully loaded system
- Up to 240 zones to map initiating devices to control functions
- Two Signaling Line Circuits (SLC) which support up to 254 addressable points
- SLC distances of over 6000' possible
- SLC meets style 4, 6 or 7
- Input either 120Vac, 240Vac 50/60 Hz, or 24Vdc
- Power supply capable of supporting 508 points plus 5.0 A usable power plus 65 Ah of standby battery capacity
- Two Notification Appliance Circuits (NAC), 2.0A each
- Dedicated Alarm, Trouble and Supervisory SPDT relays (30 Vdc/2A, 110Vac/0.5A)
- Two continuous and one resettable auxiliary power outputs, 2.0A each
- Releasing function provides three input types; cross zone, counting zone and single detector, and 6 abort types
- Reliable software and firmware integration utilizing Keyword code construction and Intelligent Output controls
- 80 Character LCD display with 8 status LEDs to provide instant visual information
- Completely field programmable, without requiring use of a personal computer
- Automatic Learn mode allows quicker, reliable system configuration

Cheetah Control System

CATALOG
NUMBER
1109

U.L. - S2203
U.L.C. - CS401 / CS770
FM - 0B4A6.AY
CSFM - 7165-0900:115
New York City - MEA266-97-E

10-052-X-X

- Three levels of password protection with built-in individual user profiles
- Full function 24 button keypad
- 1800 event history buffer, with dedicated 600 event alarm buffer
- Two levels of adjustable pre-alarm thresholds for smoke sensor to provide early warning indication of potential emergency conditions
- Automatic Day/Night smoke sensor sensitivity adjustments with Weekend and Holiday schedule adjustments
- Automatic sensitivity testing in accordance w/NFPA 72
- Sophisticated Drift Compensation routines used on addressable sensors to compensate for dust/dirt accumulation
- Walktest capability with optional notification appliance verification
- Small Enclosure, 21.125" X 14.625" X 4", capable of flush mounting without additional equipment

Features (optional/internal modules)

- Supplemental Loop Module adds 2 SLCs to Cheetah and raises addressable analog point capacity to 508
- Cheetah Relay Module adds 4 independently programmable SPDT relays per module (2 modules max) (30Vdc/2A, 110Vac/0.5A)
- Supplemental Power Supply adds 5.0A of usable power for a system total of 10.0A of usable power. Also supports an additional 65 Ah of standby battery capacity
- Cheetah Reverse Polarity Module adds off premise reverse polarity transmission of alarm, supervisory and trouble conditions. (NFPA 72 Remote Station)
- Network Card allows ability to network up to (8) Cheetah panels providing over 4000 addressable points. In addition, the system is capable of supporting up to 4000 feet between each panel

Features (optional/external modules)

- Photo, Ion and Heat detectors available on a 4" or 6" mounting base
- Supervised Output Module provides steady state or user programmable modulation allowing use of a single circuit to annunciate different conditions
- Supervised Releasing Module supports 12V or 24V solenoids, up to six (6) Fike Agent Release Modules (ARM)

or supports off premise transmission via interface to a Masterbox (NFPA 72 Auxiliary)

- Relay Module provides 2 independently programmable SPDT relays (30Vdc/2A, 110 Vac/0.5A)
- Fast Response Contact Module provides normally open or normally closed dry contact monitoring. Available in two packages; mounted to a 4" square faceplate or a "mini" version for universal mounting
- Isolator Module provides NFPA style 7 communication on SLC
- Digital Alarm Communicator Transmitter (DACT) (NFPA 71 and 72 Remote Station)
- Intelligent Interface
 - High Level Interface (HLI) Provides an intelligent, two-way interface to a maximum of 50 Vesda® LaserPLUS, LaserPLUS Scanner, and Laser Compact detectors
 - Graphic Annunciator
 - Cheetah Tracker provides a user friendly, windows based pc configuration for ease of installation
 - Cheetah Remote Display provides a remote, two-way interface of system status and user controls

Description

The Cheetah Fike Detection and Control System is a micro-processor based addressable system, manufactured by Fike Protection Systems in Blue Springs, Missouri.

SLCs - The SLC's on the Cheetah Control System use an advanced microprocessor and communication scheme to enhance reliability and speed communications. Reliability is enhanced by the Key-Code programming techniques which require construction of a Key-Code, similar to a combination of a safe, as events occur and the system begins to initiate a sequence of events. No control functions are initiated until the proper Key-Code is constructed.

Response Time - The Cheetah response times, measured from the initiation of an alarm to activation of output devices (i.e. SOMs and R2Ms) are less than 3 seconds, for the first alarm. Suppression modules (SRM) require about 0.25s each to activate due to their extra confirmation coding. These response times are achieved by using an interrupt driven protocol and using intelligent devices. If the amount of smoke exceeds a threshold calculated by the Cheetah *but stored in the sensor*, the sensor will interrupt normal processing to signal the alarm condition to the control panel. The control panel will then broadcast general messages to activate the necessary control functions. Since each control device maintains a custom configuration which defines its operating characteristics, control devices do not require individual communication from the control panel to operate, drastically increasing response times.

History Buffers - The Cheetah provides three history buffers which can store up to 600 events each. One is an **event** buffer which logs each and every event which occurs, the second is an **alarm** buffer which logs only alarm events and the third is a **zone** buffer which logs events occurring on each of the 240 zones.

Vesda – The Cheetah control system provides an intelligent, two-way interface to the Vesda® LaserPLUS, LaserPLUS Scanner and LaserPLUS Compact (VN) detectors. As a two-way interface, the Cheetah system processes and displays pre-alarm, alarm and trouble signals from each LaserPLUS detector similar to the way it interfaces to a spot detector. In addition, functions such as acknowledge and reset performed at the Cheetah will be performed at the LaserPLUS detector as well. A LaserPLUS detector may participate as a suppression input or alarm only. The Scanner version may be programmed such that each sampling tube is specific to a Cheetah zone. Each time a LaserPLUS pre-alarm or alarm threshold is exceeded, Cheetah will display the programmed value and the LaserPLUS's **real time** obscuration value.

Tracker - Cheetah Tracker is a windows based, easy to use, method of configuring Cheetah. It also provides the ability to upload configuration and history buffers from a Cheetah panel for review and printout.

Graphic Annunciator - The Cheetah is compatible with the Intella-Scan Graphic Annunciator. For distances less than 50', a RS-232 interface may be used directly from a Cheetah panel to the annunciator. For distances greater than 50', the RS-485 port on Cheetah is used in conjunction with a special RS-485 to RS-232 converter.

Components

10-052-R-1	Cheetah Control System 120Vac - Red Enclosure
10-052-G-1	Cheetah Control System 120Vac - Gray Enclosure
10-052-R-2	Cheetah Control System 240Vac - Red Enclosure
10-052-G-2	Cheetah Control System 240Vac - Gray Enclosure
10-2201-1	Supplemental Power Supply, SPS, 120VAC
10-2201-2	Supplemental Power Supply, SPS, 240VAC
10-2203	Supplemental Loop Module, SLM
10-2204	Cheetah Relay Module, CRM4
10-2254	Cheetah Reverse Polarity Module
10-2292	Cheetah Network Card
10-2276	Cheetah Remote Display
10-2190-1	Battery Assembly, 7 AH
10-2190-2	Battery Assembly, 17 AH
06-144	Cheetah Tracker
55-026	Addressable Device Programmer
63-1021	Photo Detector
67-1032	Ion Detector
60-1028	Thermal Detector
63-1020	4" base
63-1023	6" base
55-019	FRCM (4" square)
55-020	FRCM (s/w)
55-021	Supervised Output Module
55-022	Solenoid Releasing Module (ARM III and City Tie Interface)
55-023	Dual Relay Module
63-028	Duct Detector
63-029	Duct Detector with relays