OTIC Project No. 58-20-01
Ohio Turnpike: Toll Plaza Construction
Milepost 49, Lucas County, Ohio

SUBSTITUTION REQUEST

(Use separate form for each request)

Date: 5/15/2020 Request No.: 1

TO: KEVIN.COLICK@OHIOTURNPIKE.ORG VICTORIA.KULLIK@OHIOTURNPIKE.ORG

Phone:

PROJECT: OHIO TURNPIKE: TOLL PLAZA Project No.: 58-20-01

TRADE CONTRACTOR: TRANSTAR ELECTRIC SECURITY & TECHNOLOGIES

SPECIFIED ITEM: FIRE ALARM SYSTEM

Section: Page: Paragraph: Description:

Drawing Number(s): E112 --> E113 Detail Number(s):

The undersigned request consideration of the following:

PROPOSED SUBSTITUTION: SIEMENS FIRE ALARM SYSTEM - SEE ATTACHED

REASON FOR NOT GIVING PRIORITY TO SPECIFIED ITEMS:

NO FIRE ALARM SPECIFICATIONS YET, Transtar is a dealer and we can service this system in the future.

SAVINGS or CREDIT to OWNER for ACCEPTING SUBSTITUTE: $ EQUAL

Attached data includes description, Specifications, Drawings, photographs, performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

Approved - Mike Murphy, Architect, PRIME AE Group, Inc.

Data Sheet

Cerberus PRO

A comprehensive fire-protection system

ARCHITECT AND ENGINEER SPECIFICATIONS

- **Standard 50-point, 252-point and 504-point fire systems**
- **Remote viewing for the 252-point and 504-point systems**
- **One (1) or (2) two-height-unit enclosures**
- **Powerful, but user-friendly system interface**
- **Softkey buttons**
- **RS–485 interface**
- **Four-way navigation menu with extended-views capability**
- **Primary, regulated power**
  - 300-Watts is rated at 11.5 Amps
  - 170-Watts is rated at 6.5 Amps
- **Universal AC power input:**
  - 120VAC or 240VAC
  - 50 / 60Hz @ 2.0A max.
- **Fully field programmable, via a Windows®-laptop PC**
- **Built-in strobe synchronization protocol**
- **Global annunciation and control capability**
- **Several relay commands: *Alarm*, *Trouble*, *Supervisory*, etc.**
- **Light-emitting diodes (LEDs) for: *Power, Alarm*, *Supervisory*, *Silenced*, *Ground Fault*, *Trouble*, and system-status LEDs**
  - *Alarm* command has a larger, distinctive LED
- **LED-option provides LED annunciation of system activity**
- **Backlit liquid-crystal display (LCD)**
- ***SureWire*™ addressable-loop technology**
  - Patented polarity-insensitive detection circuits
- **Intelligent / analog detection circuits: 'Class A' or 'Class B'**
- **Supports *FirePrint*™ detection applications**
- **Supports single-person, 'Walk Test'**
- **Sprinkler Supervision**
- **End-user 'Help' screens**
- **Multiple command stations**
- **Supports pre-action, deluge and Sinorix®-agent releasing for 252 / 504-point systems**
  - Releasing-valve monitoring
- **Detector Sensitivity Readout / Printout**
  - per NFPA 72
- **Cerberus® DMS Danger Management Station can monitor, control up to 16 Model FC922, FC924 FACPs**
- **Supervised remote printer, via the Remote Peripheral Module**
  - for the 252 / 504-point systems
- **Menu-driven operator commands**
- **5,000-event history-logging capability with on-line and off-line reports**
  - Off-line reports can be viewed the custom-configuration programming tool
  - EEPROM software compatible
- **Multiple levels of password protection**
- **Automatic environmental compensation for smoke detectors**
- **Pre-*alarm* operation**
- ***Alarm* verification (by device or zone)**
- **Degrade-mode operation**
- **Logic-controlled output functions**
- **Optional city-tie / leased-line module**
- **Distributed processing**
- ***Gas Alarm* events for CO detection, per NFPA 720**
  - for the 252 / 504-point systems
- **Optional notification-appliance-circuit (NAC) expansion module**
  - Up to 3.0 amps (24VDC) load per output
  - Module used for 252/ 504-point systems
- **NEC 760 power-limited circuits**
  - ⓤUL 864-compliant
- **ⓤUL 864 9th Edition Listed, ⓤLC Listed; FM (#3010), CSFM (#7165-0067:0259) and FDNY (#6104) Approved**

Product Overview

Cerberus PRO, a comprehensive fire-protection system from Siemens – Fire Safety, is a technologically advanced fire-and-life-safety system. Each Cerberus PRO system provides easy operation via its push-button soft keys; a backlit LCD screen, and a (4) four-way navigation push button — all located in the upper portion of each panel.

Through the use of its unique multiprocessor 'Network' design – along with its ability to utilize intelligent detection devices – Cerberus PRO epitomizes a flexible and highly configurable fire system. *SureWire*™ addressable-loop technology is supported by Cerberus PRO.

Cerberus PRO is ideally suited for small and mid-market applications by providing 50, 252 and 504-point addressable fire-alarm-control-panel (FACP). The 252 and 504-point systems are networkable.

In conjunction with these new, improved FACPs is a state-of-the-art line of intelligent detectors. For example, the Multi-Criteria Fire / CO Detector [with **ASA***technology*™] is cutting-edge technology for specialized applications — such as carbon-monoxide detection — compared to standardized detectors.

The Photoelectric Smoke Detector uses microcontroller circuitry and surface-mount technology for peak dependability.

Cerberus® PRO

Fire Safety Products

9800

System Overview

SIEMENS

Cerberus PRO System Components

50-point Cerberus PRO FACP

50-point Cerberus PRO FACP

Model FC901 is an addressable FACP that provides a cost-effective solution for simple fire-alarm-system applications. Model FC901 contains one (1), built-in DACT and two (2) NACs.

Small and compact in design, Model FC901 is ideal for small fire-protection applications using no more than 50 addressable points:

- retail outlets / strip malls
- doctors' offices
- dry cleaners
- restaurants
- banks, etc.

The dimensions of Model FC901 (connected to a one-height-unit enclosure) are approximately as follows: 16.25" [41.3 cm.] (**H**) –x– 18" [46 cm.] (**W**) –x– 5" [41.3 cm.] (**D**)

The weight (without operating unit or batteries) is approximately 9 Lbs [4082 g].

252 / 504-point Cerberus PRO fire system

252 / 504-point Cerberus PRO fire system

The Cerberus PRO Model FC922 (252-point) and FC924 (504-point) addressable FACP is designed to meet the fire-protection needs of mid-size buildings.

This advanced panel offers features typically required in mid-size buildings in a package that is easy to install and competitively priced. Additionally, Models FC922 and FC924 are networkable, allowing the systems to fulfill the growing fire-protection needs of the building.

Models FC922 and FC924 utilize a two-height-unit enclosure. The following components comprise a complete two-height-unit enclosure:

- Operating unit
- Periphery board
- Power supplies
- System enclosures

Standard Operating Unit

Operating Unit with LEDs

Operating Interface Unit

The Operating Interface Unit (Model FCM2018-U3 or Model FCM2019-U3) functions as the operator interfaces and central microprocessors for the Fire Terminal (Model FT924) and Cerberus PRO FACPs (Models FC922 and FC924).

Model FCM2018-U3 or Model FCM2019-U3 provides multi-use capability for each end-user to efficiently 'Acknowledge' events; to quickly control the notification-appliance circuits (NACs) of the corresponding FACP, and to permit a manual reset of the respective system. Detailed information about the nature and location of the events are displayed via a 2"–x– 4-3/4", backlit LCD screen.

Model FCM2018-U3 or Model FCM2019-U3 contains the site-specific program configuration created in 'Cerberus Works'. The controller in each interface module provides all system logic and supervision.

Either Operating Unit allows for connection to the Remote Peripheral Module (Model FCA2018-U1) and / or the Remote Terminal Displays (Models FT2014-U3 / R3; FT2015-U3 / R3).

FCI2016-U1
(Periphery board for 252-point Cerberus PRO panels)

FCI2017-U1
(Periphery board for 504-point Cerberus PRO panels)

Periphery Boards

The periphery boards (Models FCI2016-U1 and FCI2017-U1) encompass the key components for operating the Cerberus PRO panels (Models FC922 and FC924). Each module operates and monitors input-device identity; as well as controls the signaling-line circuits that communicate with smoke detectors and other field devices (i.e. – C-net).

Each periphery board is equipped with two (2) programmable 'Class B' (Style Y) or 'one (1) Class A' (Style Z) NAC, providing 24VDC, nominal at a 3A per circuit maximum of audible / visual notification appliances. The periphery boards mount directly on the enclosure back boxes of the Model FC922 and Model FC922 Cerberus PRO panels. Models FCI2016-U1/ FCI2017-U1 provide two (2) parallel auxiliary powered, short-circuit-protected connections (regulated 24VDC, 1.5A max) that supply power to external devices or modules.

Cerberus PRO Components – (continued)

Fire Terminal (and equipment)

The Fire Terminal (Model FT924) consists of the Fire Terminal Board (Model FTI2001-U1); the Operating Unit (Model FCM2018-U3 or Model FCM2019-U3), and a one-height-unit (1HU) system enclosure.

Each Model FT924 terminal contains one (1) backlit, 2" —x— 4-3/4" Video Graphics Array (VGA) monochrome LCD screen with LEDs for displaying system status. An audible will sound when there are 'unacknowledged' events on the system.

The display of each operating unit categorizes events by type, providing a separate event tab for *Alarm*, *Gas Alarm*, *Supervisory*, and *Trouble* events. The quantity of active events of each type is listed in each event tab. The display provides two (2) full lines of text message for each event.

Each event can have a 40-character custom message describing the location for a given event. In addition to the text message, the system displays the category of the active event: (e.g. – *Automatic Alarm*, *Water Flow*, *Manual*, etc) – the category means more to responding officials than model numbers.

The Fire Terminal Boards contain the site-specific program configuration which is created in 'Cerberus Works'.

Digital Alarm Communicator Transmitter

Digital Alarm Communicator Transmitter

The Digital Alarm Communicator Transmitter (DACT) is used to provide communication between the Cerberus PRO fire-alarm control panels (Models FC922 and FC924); one (1) fire terminal (Model FT924) and an off-premises remote monitoring station.

Each DACT (Model FCA2015-U1) can also support additional 3rd -party Internet Protocol (IP) and Global System Mobile (GSM) communication technologies, which include: Telguard and Sur-Gard. Thus, Model FCA2015-U1 is UL Listed as compatible with 3rd -party IP and GSM dialers, which include: Telguard TG-7S GSM, Sur-Gard TL300-CF IP and Sur-Gard 3G3070-CF GSM.

Model FCA2015-U1 connects to the periphery boards, and it enables remote transmission of alarms and events via a public telephone line. Additionally, each DACT module supports two (2) lines and four (4) accounts, and can transmit serial information (including the address of the event) to the monitoring station.

Model FCA2015-U1 performs an automatic 24-hour test, per NFPA, Chapter 4 specification.

C-WEB Network Module

C-WEB Network Module

The C-WEB network module (Model FN2001-U1) is used to network up to 16 FACPs and the Fire Terminal (Model FT924), via the C-net system bus. The C-WEB network module is plugged into the Operating Unit (Model FCM2018-U3 or Model FCM2019-U3).

Model FN2001-U1 supports 'peer-to-peer' networking between the following systems:

- Model FC922
- Model FC924
- Model FT924

The Model FN2001-U1 connects to system-bus inputs and outputs, and the module has ground-fault monitoring, as well as an integrated degrade-mode function.

Redundant networking is accomplished with one (1) network module [simple loop trouble] per panel. There is electrical isolation between the system bus and the FACP.

170-Watt Power Supply

300-Watt Power Supply

Power Supply Modules

The 170-Watt power supply (Model FP2016-U1) and 300-Watt power supply (Model FP2012-U1) provide primary, regulated (24VDC, nominal) power for normal operation to Siemens – Fire Safety systems. Both power supplies are filtered and regulated. Model FP2016-U1 is rated 6.5 Amps at 24VDC, nominal. Model FP2012-U1 is rated 11.5 Amps at 24VDC, nominal.

The 170-Watt power supply incorporates a 4.0A, non-resettable slow-blow fuse on the primary input, and includes a built-in AC-line filter for surge and noise suppression. Model FP2016-U1 mounts in a standard Cerberus PRO-brand enclosure, and there are no serviceable parts to be maintained.

Cerberus PRO Components – (continued)

The 300-Watt power supply incorporates two (2) 6.3A replaceable, non-resettable slow-blow fuses on the primary input and includes a built-in AC-line filter for surge and noise suppression. Model FP2012-U1 mounts in a Cerberus PRO-brand enclosure, and there are no serviceable parts to be maintained.

Model FP2016-U1 is used with Models FC901, FC922 and FC924 FACPs. Model FP2012-U1 operates with Models FC922 and FC924 FACPs.

NAC Expansion Module

NAC Expansion Module

The NAC expansion module (Model FCI2011-U1) is an optional module that is connected to the peripheral boards (Models FCI2016-U1, FCI2017-U1), providing additional NACs to 252-point and 504-point systems, respectively.

One (1) 'Class A' or two (2) 'Class B' NACs are provided with the following Cerberus PRO systems:

- Model FC922 (252-point)
- Model FC924 (504-point)

Each NAC is rated at 3 Amps. Each NAC expansion module is monitored for open-line and short-circuit conditions.

Releasing Module

Releasing Module

The Cerberus PRO releasing module (Model XCI2001-U1) is an optional module that is connected to the peripheral boards (Models FCI2016-U1, FCI2017-U1), providing two (2) circuits of optional releasing, respectively.

Model XCI2001-U1 supports activation of releasing valves in pre-action / deluge systems (including double-interlock pre-action systems, or Sinorix engineered fire suppression systems). Model XCI2001-U1 supports only 'Class B' releasing circuits.

When installed on a Model FC922 or Model FC924 Cerberus PRO FACP, the releasing module contains an integral manual-disconnect switch for releasing circuits. This essential feature protects the releasing circuits from accidental discharge during maintenance.

Activation can be accomplished via cross zoning of automatic detectors or manual activation within one (1) FACP.

A pre-discharge countdown timer is available for display at the operating unit (Model FCM2018-U3 or Model FCM2019-U3).

Remote Peripheral Module

Remote Peripheral Module
(with RS–485 interface)

The Remote Peripheral Module (FCA2018-U1) provides a means of connecting a Cerberus PRO panel to a parallel printer for creating a hard copy of system-status and configuration reports. This supervised, intelligent module contains built-in transient protection and plain-decimal addressing.

Model FCA2018-U1 is remotely connected to the Model FCA2016-U1 RS–485 communication bus from any Cerberus PRO system enclosure. Model FCA2018-U1 uses 'Class B' (Style 4) or 'Class A' (Style 6) wiring, and provides two (2) RS–232 (serial) ports and a single parallel port that allow connection to the parallel printer (Model PAL-1).

When Model PAL-1 is used with the remote peripheral module, Model FCA2018-U1 supervises the printer for *On / Off Line*, *Power On*, *Paper Out*, *Paper Jam*, and wiring-fault conditions, as required by ℞UL for NFPA 72 proprietary systems.

Event and report printing is generated at the operating unit (Model FCM2018-U3 or Model FCM2019-U3) on the main Cerberus PRO system.

Remote Display Terminal
(with [3] three control buttons)

Cerberus PRO Components – (continued)

Remote Display Terminals (with RS—485 interface)

The Remote Display Terminals (Models FT2014-U3 / R3 and FT2015-U3 / R3) are LED / LCD units that show the existing status of a Cerberus PRO 252 / 504-point system. A Remote Annunciator (Model FSD90-U3 / R3) is used for the Cerberus PRO 50-point FACP (Model FC901).

A LED will illuminate for any given *Alarm*, *Supervisory* and *Trouble* Cerberus PRO-system event. An LCD screen will give details of the event in alphanumeric form. The display screen can be scrolled to reveal additional events. Optional remote-system-control capabilities are also available.

When an event has been triggered to the Cerberus PRO panel, the LCD screen will show the following:

- Event type and zone
- Time of the event [only possible in a menu-driven function]
- Custom message for that zone
- Usage of the zone
- 'Unacknowledged' or 'Acknowledged' event

The display has a backlight feature that operates upon receiving any event information or when any operator buttons are pressed.

The Model FT2014-series display terminal has a button used to silence the local sounder. Meanwhile, the Model FT2015-series display terminal has three (3) control buttons for 'acknowledging' events; silencing audible circuits and resetting the system. Additionally, there are three (3) user-programmable buttons available. The Model FT2015-series has a key switch that enables the control buttons to operate.

The remote display terminals are remotely connected to the Cerberus PRO FACP, via the RS–485 interface. The Model FC922 and FC924 Cerberus PRO panels require the Model FCA2016-U1 RS–485 module to provide communication to the remote display terminals. Model FCA2016-U1 supports Style 4 or Style 6 wiring. Up to eight (8) modules can be supported on a RS–485 bus.

Leased-Line / City-Tie Module

Leased-Line / City-Tie Module

The leased-line / city-tie module (Model FCI2020-U1) is used as an optional module, providing a local-energy output for municipal call-box connection. Model FCI2020-U1 also gives a reverse-polarity output for leased-line connection. Model FCI2020-U1 is installed on the periphery board for Models FC922 and FC924 FACPs, respectively, but is installed on the back of the main board of the Model FC901 FACP.

When used for connection to a municipal call box, the city-tie function supports *Alarm*-event transmission. When used for leased-line connection, the module supports two (2) leased telephone lines for transmitting *Alarm*, *Trouble* and *Supervisory* events.

Single-Mode / Multi-Mode Fiber-Optic Module

Single-Mode / Multi-Mode Fiber-Optic Module

The single-mode (Model FN2006-U1) / multi-mode (Model FN2007-U1) fiber-optic interface module can be used to transmit RS–485 communication for the Cerberus PRO Model FC922 and FC924 (FACP), as well as the Model FT924 Fire Terminal.

The single-mode / multi-mode fiber-optic module provides C-net peer-to-peer network communication between the Cerberus PRO 252-point and 504-point fire systems.

Models FN2006-U1 / FN2007-U1 require 24 Volts DC [nominal] power, and the Models FC922 or FC924 FACP serve as the source for this power specification. Models FN2006-U1 / FN2007-U1 can also be powered from any ®UL Listed, regulated 24VDC power supply, such as The Distributed Power Module & NAC Extender.

Models FN2006-U1 / FN2007-U1 can be mounted in a Cerberus PRO one-height-unit or two-height unit enclosure, and can operate in a daisy-chain configuration.

Two (2), high-quality duplex 9/125 fiber-optic cables and ST-style fiber connectors are used for connection between single-mode fiber-optic modules. The duplex fiber-optic cable has two (2) cables in a single shield that is similar to an electrical zip cord. When using single-mode fiber, each segment of the fiber network can be up to almost 10 miles (16.1 km).

For 'Class B' installations, each FACP or terminal at either end of the daisy chain use one (1) duplex cable for connection to the next networked panel or terminal. FACPs or terminals within the daisy chain require two (2) duplex cables: one (1) duplex cable for connection to the previous FACP, and one (1) duplex cable for connection to the next FACP.

For 'Class A' installations, each FACP or terminal requires two (2) duplex cables: one (1) duplex cable for connection to the previous FACP, and one (1) duplex cable for connection to the next FACP.

Model FHB2001-U1
[for one-height-unit Enclosures]

Cerberus PRO Components – (continued)

50-Point System Enclosure

The Model FH901-U3 / R3 enclosure for the Model FC901 FACP is available in either black or red, and supports all system modules. The enclosure also supports 12Ah batteries.

Note: For systems requiring larger than 12Ah batteries, use a ®UL Listed battery box.

The Model FH901-U3 / R3 enclosure for the 50-point panel is comprised of a dual-mounting setup that allows the main board to be partially mounted in a lower-to-upper position. When temporarily installed in the lower position, technicians are allowed more space to install field wiring at the time of system set-up. When field-wiring installation is complete, the main board shall be moved to the upper position for standard mounting prior to applying power to the system.

Additionally, the enclosure supports an optional battery bracket (Model FHA901-U1) that can be used to secure batteries up to 12Ah. Model FHA901-U1 is required to comply with seismic certification, pursuant to ASC / SEI 7-05, Section 13.2.2.

A flush-mount trim kit (Model FHA902-U1 / R1) is also available for use when flush mounting Model FH901-U3 / R3.

One-Height-Unit Enclosure

For each Cerberus PRO panel, one (1) red or black back box supports one (1) red or black outer door, respectively. The inner door, which is available in black, specifically stores the system operating units (Models FCM2018-U3 and FCM2019-U3). The back box supports the fire-terminal board (Model FTI2001-U1), and optionally supports the DACT (Model FCA2015-U1).

The one-height-unit enclosure is the smaller housing used on Cerberus PRO panels. The following components comprise a complete one-height-unit enclosure:

- One (1) back box, (Model FHB2001-U1 / R1)
- One (1) inner door, (Model FHD2004-U1)
- One (1) outer door, (Model FHD2001-U3 / R3)
- One (1) clear lens, (Model FHD2006-U1)

Approximate size: 15" (38.1 cm.) high;
20" (50.8 cm.) wide,
and 4.5" (11 cm.) deep.

Model FHB2002-U1
[for Two-Height-Unit Enclosures]

Two-Height-Unit Enclosure

The two-height-unit enclosure is the larger housing for the Cerberus PRO 252 / 504-point FACP. The following components comprise a complete two-height-unit enclosure:

- One (1) back box, (Model FHB2002-U1 / R1)
- One (1) or two (2) inner doors, (Models FHD2004-U1 or FHD2005-U1)
- One (1) outer door, (Model FHD2002-U3 / R3 or FHD2003-U3 / R3)
- One (1) or two (2) clear windows, (Model FHD2006-U1)

Note: One (1) window is installed for Model FHD2002-U3 / R3 outer door, and two (2) windows are required for Model FHD2003-U3 / R3.

Approximate size: 28.5" (72.4 cm.) high;
20" (50.8 cm.),
and 6.0" (15.2 cm.) deep

Inner doors

There are two (2) inner doors available for Cerberus PRO system enclosures. Model FHD2004-U1 supports one (1) operating unit {Model FCM2018-U3 or Model FCM2019-U3}, or one (1) to four (4) LED-option modules (Model FCM2023-U3).

When less than four (4) LED option modules are used, the blank-option module (Model FCM2022-U3) covers unused module spaces in the inner door.

Approximate size: 13.25" (33.7 cm.) high and
20" (50.8 cm.) wide

Note: Model FHD2005-U1 is a solid blank plate used to provide dead-front protection.

Outer-door clear windows

The window (Model FHD2006-U1) is a rugged Lexan® lens, and is mounted to the opening of the outer door.

Approximate size: 10.25" (26.04 cm.) high and
17" (43.2 cm.) wide

Enclosure Trim Kits

Each size enclosure has a trim kit available in black and red. The trim kit is used for flush mounting a Cerberus PRO system enclosure. Model FHA2035-U1 / R1 is used for the one-height-unit enclosure, and FHA2036-U1 / R1 is used for the two-height-unit enclosure.

DIN rail kit

The optional DIN Rail Kit (Model FHA2031-U1) mounts in the back box of a one or two-height-unit enclosure, and provides connection between internal-system wiring and field wiring.

Battery bracket

An optional battery bracket (Model FHA2032-U1) can be used to secure batteries up to 33Ah. Model FHA2032-U1 is required to comply with seismic certification, pursuant to ASC / SEI 7-05, Section 13.2.2.

Cerberus PRO Components – (continued)

[LED option] [Blank option]

LED-Option Module

Model FCM2023-U3 is a LED-option module that provides LED annunciation of system activity.

The LED-option module can either be configured up to 24 indicator zones, or is capable of displaying up to 48 individual LEDs. Each zone contains one (1) RED / GREEN bi-color LED and one (1) YELLOW LED.

Any event can be assigned to each LED, which may be configured as a 'static' or 'flashing' indicator using the Cerberus PRO custom-configurable software tool, 'Cerberus Works'. Normally, the LED indicator is used as a zone indicator.

The LED-option module is connected to the peripheral data bus, and can be cascaded to up to a maximum of four (4) LED modules. A space is provided for labeling of LED functions. The label slides behind a clear, protective membrane.

Blank Option Module

Model FCM2022-U3 is a blank-option module intended to cover any blank LED areas where LED modules are not being occupied.

Models FCM2022-U3 and FCM2023-U3 are mounted on the inner door of a Cerberus PRO enclosure. Any combination of modules may be mounted on the inner door. Up to four (4) total modules can be supported.

Remote Annunciator
[for the 50-point addressable FACP]

Remote Annunciator

Used exclusively with the Cerberus PRO 50-point FACP, the remote annunciator (Model FSD901-U3 / R3) shows existing status of the Model FC901 FACP.

A built-in RS–485 serves as the interface between the remote annunciator and the Cerberus PRO 50-point FACP. Up to eight (8) remote annunciators are supported for each 50-point fire system.

A 3.5-inch (8.9 cm) by 1.5" (3.8 cm) LCD screen will show details of the event in alphanumeric form. The display screen can be scrolled to reveal additional events. Each screen supports 182 characters: seven (7) lines with 26 characters per line.

Battery Disconnect Module

Battery Disconnect Module

The Battery Disconnect Module (Model FCA2032-U1) is specifically designed to disconnect the backup battery on the Cerberus PRO 252 / 504-point addressable FACP when battery voltage drops below 19VDC. The disconnection caused by Model FCA2032-U1 prevents the battery from discharging beyond the power level of normal system operation.

The battery-disconnect module, which is mounted next to the DACT, remains disconnected until AC power is restored to Models FC922 and FC924.

S-Series License Keys
[**S1**, Model FCA2033-A1 | **S2**, Model FCA2034-A1 | **S3**, Model FCA2035-A1]

S-Series License Keys

The S_1 license key (Model FCA2033-A1) allows for virtual monitoring and control between a Cerberus PRO fire-only panel and a personal computer.

The S_2 license key (Model FCA2034-A1) is a BACnet output, and is used for monitoring-only purposes by a 3rd-party system for life-safety objects.

The S_3 license key (Model FCA2035-A1) is a combination license key that allows for virtual monitoring and control, as well as for distribution of BACnet (monitoring-only) communications. A four-digit personal identification number (PIN) must be used in order to prevent unauthorized access.

Migration Hardware Kit

Model FHA2056-series kits are specifically designed for the seamless transition of an existing Siemens FS-250 (FireSeeker) control panel into a fully operational 50 | 252 or 504-point addressable Cerberus PRO fire-alarm FACP, [FC901 | FC922 or FC924, respectively]. Each shipment of the Model FHA2056-series kits contains the following pieces of equipment:

- One (1) outer door
- One (1) inner door
- One (1) hinge-assembly bracket
- One (1) back plate
- One (1) inner-door bracket

NOTE: The five (5) items that comprise one (1) Model FHA2056-series hardware-migration kit cannot be ordered individually.

Related Documentation

Model	Data Sheet Number	Description
OH921	9900	Multi-Criteria Fire Detector
HI921	9901	Thermal (Heat) Detector
OP921	9902	Photoelectric Smoke Detector
OOHC941	9903	Multi-Criteria Fire / CO Detector [with **ASA***technology*™]
OOH941	9904	Multi-Criteria Fire Detector [with **ASA***technology*™]
FDCIO422	9905	4-Input / 4-Output Interface Module
See: data sheet	9906	`FDBZ' Series Air-Duct Housings
See: data sheet	9907	`DB' Series Detector Base

Details for Ordering

Model	Part Number	Description
FCA2015-U1	S54400-A63-A1	Digital Alarm Communication Transmitter
FCA2016-U1	S54400-A39-A1	RS–485 Interface
FCA2018-U1	S54400-A65-A1	Remote Peripheral Module
FCA2032-U1	S54400-B145-A1	Battery Disconnect Module
FCA2033-U1	S54400-P154-A1	License Key (S_1) for remote access | remote view | remote operation
FCA2034-U1	S54400-P155-A1	License Key (S_2) for BACnet output (monitoring only)
FCA2035-U1	S54400-P156-A1	License Key (S_3) for remote access | remote view | remote operation | BACnet output
FCI2011-U1	S54400-A54-A1	NAC Expansion Module
FCI2016-U1	S54400-A55-A1	252-Pt. Periphery Board
FCI2017-U1	S54400-A56-A1	504-Pt. Periphery Board
FCI2020-U1	S54400-A57-A1	Leased-Line / City-Tie Module
FCM2018-U3	S54400-C40-A2	Operating Interface Unit
FCM2019-U3	S54400-C41-A2	Operating Interface Unit [with LED]
FCM2022-U3	S54400-C44-A2	Blank Option Module
FCM2023-U3	S54400-C45-A2	LED Option Module
FCM901-U3	S54433-B101-A1	50-point FACP main board
FHA2031-U1	S54400-B44-A1	DIN Rail Kit
FHA2032-U1	S54400-B43-A1	Up to 33Ah battery bracket

Details for Ordering – (continued)

Model	Part Number	Description
FHA2035-U1	S54400-B42-A1	One-Height-Unit Trim Kit, **Black**
FHA2035-R1	S54400-B44-A2	One-Height-Unit Trim Kit, Red
FHA2036-U1	S54400-B41-A1	Two-Height-Unit Trim Kit, **Black**
FHA2036-R1	S54400-B42-A2	Two-Height-Unit Trim Kit, Red
FHA2056-U1	S54400-B18-A1	Cerberus PRO Hardware Migration Kit, **Black**
FHA2056-R1	S54400-B19-A1	Cerberus PRO Hardware Migration Kit, Red
FHB2001-U1	S54400-B47-A1	One-Height-Unit Back Box, **Black**
FHB2001-R1	S54400-B47-A2	One-Height-Unit Back Box, Red
FHB2002-U1	S54400-B48-A1	Two-Height-Unit Back Box, **Black**
FHB2002-R1	S54400-B48-A2	Two-Height-Unit Back Box, Red
FHD2001-U3	S54400-B45-A1	One-Height-Unit Outer Door, **Black**
FHD2001-R3	S54400-B40-A1	One-Height-Unit Outer Door, Red
FHD2002-U3	S54400-B32-A1	Two-Height-Unit Outer Door [with one (1) window], **Black**
FHD2002-R3	S54400-C53-A1	Two-Height-Unit Outer Door [with one (1) window], Red
FHD2003-U3	S54400-C42-A1	Two-Height-Unit Outer Door [with two (2) windows], **Black**
FHD2003-R3	S54400-B46-A1	Two-Height-Unit Outer Door [with two (2) windows], Red
FHD2004-U1	S54400-B52-A1	Inner door, **Black**
FHD2005-U1	S54400-B53-A1	Inner door, Solid **Black**
FHD2006-U1	S54400-C46-A1	Clear-lens window
FHD2012-U1	S54400-C135-A1	Optional inner door [for housing a Model FT201-series display terminal], **Black**
FH901-U3	S54433-B103-A3	50-point panel Enclosure, **Black**
FH901-R3	S54433-B103-A4	50-point panel Enclosure, Red
FN2001-U1	S54400-A60-A1	C-WEB Network Module
FP2016-U1	S54400-Z63-A1	170-Watt Power Supply
FP2012-U1	S54400-Z60-A1	300-Watt Power Supply
FSD901-U3	S54433-C102-A1	50-point Remote Annunciator, **Black**
FSD901-R3	S54433-C102-A2	50-point Remote Annunciator, Red
FT2014-U3	S54400-B80-A1	Remote Display Terminal, **Black**
FT2014-R3	S54400-B73-A1	Remote Display Terminal, Red
FT2015-U3	S54400-B88-A1	Remote Display Terminal, **Black**
FT2015-R3	S54400-B16-A1	Remote Display Terminal, Red
FTI2001-U1	S54400-A58-A1	Fire Terminal Board
XCI2001-U1	S54400-A69-A1	Releasing Module

SIEMENS Cerberus® PRO

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NOTICE — The information contained in this data-sheet document is intended only as a summary, and is subject to change without notice. The devices described here have specific instruction sheets that cover various technical, limitation and liability information.

Copies of these instruction sheets and the *General Product Warning and Limitations* document, which also contains important information, are provided with the product and, are available from the Manufacturer.

Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact the Manufacturer.

Cerberus® PRO – detectors and peripherals perfectly connected

FC901

FC922/FC924

FV922/FV924

Cerberus™ PRO Advanced detectors with ASA*technology*™

- Advanced multi-criteria fire detector utilizing optical, thermal, and optional CO sensor
- Extreme immunity to deceptive phenomena while providing enhanced detection with the industry's only No False Alarm Guarantee
- Provide redundant optical and thermal sensors for extraordinary reliability
- Comply with NFPA 76 (Telecommunication Standard) as a Very Early Warning Fire Detector (VEWFD) as a result of high-sensitivity alarm capabilities
- Include a multi-purpose carbon monoxide (CO) life safety and fire detector
- Selectable as a multi-criteria fire detector and/or a CO life safety gas detector
- Environmentally friendly "green" detectors, as they are RoHS-compliant and replace the need for ionization detectors due to forward/backward light scattering technology
- Provide multiple selectable temperature alarm thresholds, fixed and rate-of-rise

Multi-criteria fire detector OOH941
Order no.:
S54320-F7-A2

Multi-criteria fire/CO detector OOHC941
Order no.:
S54320-F8-A2

Compatible with bases below EXCEPT ADBH-11

Cerberus™ PRO standard detectors

- Solution for standard applications with average risk and moderate potential for deceptive phenomena
- Prevents false alarms thanks to intelligent algorithms
- Thermal detector provides 7 selectable alarm thresholds, fixed and rate-of-rise.
- Offer wide operating temperature & relative humidity (RH) range
- "Green" detectors, as they are RoHS-compliant, meeting the standards regarding the restriction of the use of certain hazardous substances in electrical and electronic equipment

Multi-criteria fire detector OH921
Order no.:
S54320-F6-A2

Thermal (heat) detector HI921
Order no.:
S54320-F5-A2

Compatible with bases below EXCEPT ADBH-11

Optical (photoelectric) smoke detector OP921
Order no.:
S54320-F4-A2

Compatible with bases below EXCEPT ADBH-11

Detector base DB-11
Order no.:
500-094151

Detector base DB-11E
Order no.:
500-094151E

Detector relay base DB2-HR
Order no.:
S54370-F12-A1

Audible base SBGA-34
Order no.:
S54370-F13-A1

Audible base ADBH-11
Order no.:
500-033210

Audible base ABHW-4B
Order no.:
S54320-F13-A1

Audible base ABHW-45, (520Hz)
Order no.:
S54320-F14-A1

Ceiling mount remote lamp RL-HC
Order no.:
500-033230

Wall mount remote lamp RL-HW
Order no.:
500-033310

Remote indicators

- Are connected to automatic fire detectors that are not easily accessible or visible
- Contain an indicator lamp unit with one or two LEDs which will light up when the connected detector triggers an alarm

Indicator ceiling mount ILED-HC
Order no.:
500-048809

Remote indicator wall mount ILED-HW
Order no.:
500-048637

Air duct housings

- Backward compatible with H-series detector
- Same footprint as existing Siemens duct housings
- Include optional remote test feature and indicator
- New, improved features include easy installation, improved operating temperature range, and optional in-duct carbon monoxide (CO) detection

Air duct housing FDBZ492
Order no.:
S54319-B22-A1

Air duct housing with relays FDBZ492-HR
Order no.:
S54319-B23-A1

Optional water-tight enclosure NEMA 4X FDBZ-WT
Order no.:
S54319-B26-A1

Remote test lamp FDBZ492-RTL
Order no.:
S54319-S27-A1

Weather-proof enclosure NEMA 3R WP-2000
Order no.:
500-649714

H-series detectors

- Existing detectors from other fire protection systems from Siemens, such as the H-series, can also be placed on the C-Net together with Cerberus PRO devices

PhotorThermal detector HFP-11
Order no.:
500-033290

Thermal detector HFPT-11
Order no.:
500-033380

FITS ALL BASES

Ceiling mount remote lamp RL-HC
Order no.:
500-033230

Wall mount remote lamp RL-HW
Order no.:
500-033310

WORKS WITH ALL DETECTORS

Audible base ADBH-11
Order no.:
500-033210

Audible base SBGA-34
Order no.:
S54370-F13-A1

Audible base ABHW-4B
Order no.:
S54320-F13-A1

Audible base ABHW-45, (520Hz)
Order no.:
S54320-F14-A1

Detector base DB-11
Order no.:
500-094151

Detector base DB-11E
Order no.:
500-094151E

Detector relay base DB2-HR
Order no.:
S54370-F12-A1

Manual pull stations and accessories

- Are for immediate manual actuation of a fire alarm or an extinguishing process
- Direct alarm actuation by pulling down locking lever
- For indoor and outdoor applications
- For surface- and recess-mounted feed lines in easily accessible places

Single action manual pull station HM5-S
Order no.:
500-033200

Dual action manual pull station HM5-D
Order no.:
500-033400

Single action metal manual pull station HM5-M
Order no.:
500-033450

Line modules

- Intelligently connect independent, potential-free make-or-break contacts
- Can be independently configured via a fire control pane⁴ for status or alarm messages
- Input modules monitor devices responsible for alarm inputs and confirm signals or technical states etc.
- Output modules control other equipment, such as door holders, fire dampers, smoke control systems, plant shutdown etc.
- FDCIO422 provides class A wiring and supervision

Mini single input interface module HTRI-M
Order no.:
500-034000

Single input interface module with relay HTRI-R
Order no.:
500-033300

Dual input interface module HTRI-D
Order no.:
500-033360

Single input interface module HTRI-S
Order no.:
500-033370

Control point HCP
Order no.:
500-034860

Conventional zone module HZM
Order no.:
500-034850

Line isolator HLIM
Order no.:
500-033170

Input/output module FDCIO422
– 4 inputs, 4 outputs
– Class A and B wiring
Order no.:
S54322-F4-A1

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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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Answers for infrastructure and cities.
Our world is undergoing changes that force us to think in new ways: demographic change, urbanization, global warming and resource shortages. Maximum efficiency has top priority – and not only where energy is concerned. In addition, we need to increase comfort for the well-being of users. Also, our need for safety and security is constantly growing. For our customers, success is defined by how well they manage these challenges. Siemens has the answers.

"We are the trusted technology partner for energy-efficient, safe and secure buildings and infrastructure."

www.usa.siemens.com/fire

FC901 stand-alone control panel

1 **Main board and operator unit**
– FCM901-U3

2 **Housing**
– With back box, door, window
– FH901-U3 black
– FH901-R3 red

3 **Power supply**
– FP2011-U1 170 W, 24 VDC

4 **Battery bracket**
– FHA901-U1

5 **City tie**
– FCI2020-U1
– FCA901-U1 (cable)

SIEMENS

Cerberus® PRO

Planning Tool

Answers for infrastructure.

Housings FC901

Housing FH901-U3
– Black
Order no.: S54433-B103-A3

Housing FH901-R3
– Red
Order no.: S54433-B103-A4

Trim kit FHA902-U1
– Black
Order no.: S54433-B106-A1

Trim kit FHA902-R1
– Red
Order no.: S54433-B106-A2

Kits FC901

FC901 Electronic kit FC901-U3
– contains main board and operator unit FCM901-U3 and power supply (170 W)
Order no.: S54433-C105-A1

Expansion options FC901

Leased line/city tie module FCI2020-U1
– Same as FC922/FV924
– requires separate Leased Line/City Tie Cable
Order no.: S54400-A57-A1

Leased Line/city tie cable FCA901-U1
– Required for use with FCI2020-U1 with FC901
Order no.: S54433-C106-A1

Fire System Display FSD901-U3
Order no.: S54433-C102-A1

Fire System Display FSD901-R3
Order no.: S54433-C102-A2

Battery bracket FHA901-U1
– Secures batteries to meet seismic requirements
Order no.: S54433-B107-A1

Remote peripheral module FCA2018-U1
– Interface to remote printers
Order no.: S54400-A65-A1
PAL-1
– UL listed parallel printer
Order no.: 500-692407

System operating units FC901

Main board and operator unit FCM901-U3
– Interface options for loops, NACs, relays, aux. power, communication bus, city tie/ leased line module
– System LCD display, LEDs, control buttons
– Built in on-board DACT
Order no.: S54433-B101-A1

Power supply FC901

Power supply (170 W) FP2011-U1
– Incl. connection cable
Order no.: 500-450222

FC901 stand-alone control panel

Cerberus PRO control panels – design and possibilities

FC922/FC924 networkable control panels

6 SAFEDLINK
– FN2001-U1 for C-WEB

Connection module (MoNet)
– FCA2031-A1 for CV-WEB

5 RS485
– FCA2016-U1

4 Operator interface
– FCM2018-U3 standard operating unit
– FCM2019-U3 operating unit with LEDs

3 Inner door
– FHD2004-U1 with opening

2 Clear window
– FHD2006-U1

1 Outer door
– FHD2002-U3 2 HU, 1 window, black
– FHD2002-R3 2 HU, 1 window, red
– FHD2003-U3 2 HU, 2 windows, black
– FHD2003-R3 2 HU, 2 windows, red

7 Periphery board
– FCI2016-U1 252 pt
– FCI2017-U1 504 pt

8 Back box
– FHB2002-U1 2 HU, black
– FHB2002-R1 2 HU, red

9 DACT
– FCA2015-U1

10 Fiber module (SM and MM)
– FN2006-U1 single-mode fiber for C-WEB
– FN2007-U1 multi-mode fiber for C-WEB

Ethernet switch (modular)
– FN2012-A1 for CV-WEB

11 Power supply
– FP2011-U1 170 W, 24 VDC
– FP2012-U1 300 W, 24 VDC

12 Battery bracket
– FHA2032-U1

13 Inner door
– FHD2005-U1 solid

Housings FC922/FC924

Back box FHB2001-U1
– 1 HU, black
Order no.: S54400-847-A1

Back box FHB2001-R1
– 1 HU, red
Order no.: S54400-847-A2

Back box FHB2002-U1
– 2 HU, black
Order no.: S54400-848-A1

Back box FHB2002-R1
– 2 HU, red
Oder no.: S54400-848-A2

Outer door FHD2001-U3
– 1 HU, black
Order no.: S54400-845-A1

Outer door FHD2001-R3
– 1 HU, red
Order no.: S54400-840-A1

Outer door FHD2002-U3
– 2 HU, black
– 1 window
Order no.: S54400-832-A1

Outer door FHD2002-R3
– 2 HU, red
– 1 window
Order no.: S54400-C53-A1

Outer door FHD2003-U3
– 2 HU, black
– 2 windows
Order no.: S54400-C42-A1

Outer door FHD2003-R3
– 2 HU, red
– 2 windows
Order no.: S54400-846-A1

Inner door FHD2004-U1
– Black
Order no.: S54400-852-A1

Trim kit FHA2035-U1 and FHA2035-R1
– 1HU, black and red
Order no.: S54400-842-A1 (black)
Order no.: S54400-844-A2 (red)

Trim kit FHA2036-U1 and FHA2036-R1
Order no.: S54400-841-A1 (black)
Order no.: S54400-842-A2 (red)

System operating units FC922/FC924 and FV922/FV924

Operating unit FCM2018-U3
Order no.: S54400-C40-A2

Operating unit FCM2019-U3
– With LED
Order no.: S54400-C41-A2

Expansion and networking options FC922/FC924 and FV922/FV924

Periphery board FCI2016-U1
– Supports 252 devices
– For FC922 and FV922
Order no.: S54400-A55-A1

Periphery board FCI2017-U1
– Supports 504 devices
– For FC924 and FV924
Order no.: S54400-A56-A1

Option module (LED) FCM2023-U3
– Optionally available
Order no.: S54400-C45-A2

Option module (blank) FCM2022-U3
– Optionally available
Order no.: S54400-C44-A2

Remote display FT2014-U3
– Black
Order no.: S54400-880-A1

Remote display FT2014-R3
– Red
Order no.: S54400-873-A1

Remote terminal FT2015-U3
– Incl. key switch, black
Order no.: S54400-888-A1

Remote terminal FT2015-R3
– Incl. key switch, red
Order no.: S54400-B16-A1

Graphics driver FT2003-U1
Order no.: S54400-C136-A1

Battery bracket FHA2032-U1
– Secures batteries to meet seismic requirements
Order no.: S54400-843-A1

RS485 class A module FCA2016-U1
– For serial RS485 circuit
Order no.: S54400-A39-A1

Leased line/city tie module FCI2020-U1
– Can be configured with the 'Leased line' or 'City tie' functions
Order no.: S54400-A57-A1

Remote peripheral module FCA2018-U1
– Interface to remote printers
Order no.: S54400-A65-A1

License key FCA2012-U1
– Activates the Cerberus Remote function
Order no.: S54400-P102-A1

DACT FCA2015-U1
Order no.: S54400-A63-A1

NAC expansion FCI2011-U1
– Adds notification appliance circuits
Order no.: S54400-A54-A1

Releasing module XCI2001-U1
– Releasing for Sinorix agents and pre-action/ deluge sprinkler
Order no.: S54400-A69-A1

FC922/FC924 only

SAFEDLINK FN2001-U1
– Network module
Order no.: S54400-A60-A1

Fire terminal board FTI2001-U1
– For FT924 fire terminal
Order no.: S54400-A58-A1

Fiber module FN2006-U1
– Single-mode fiber for C-WEB
Order no.: S54400-A61-A1

Fiber module FN2007-U1
– Multi-mode fiber for C-WEB
Order no.: S54400-A62-A1

Power supply FC922/FC924

Power supply (170 W) FP2011-U1
– Incl. connection cable
Order no.: 500-450222

Power supply (300 W) FP2012-U1
– Incl. connection cable
Order no.: S54400-Z60-A1

FC922/FC924 network

FT924 fire terminal

3 Inner door
– FHD2004-U1 with opening

2 Clear window
– FHD2006-U1

1 Outer door
– FHD2001-U3 1 HU, black
– FHD2001-R3 1 HU, red

4 Operator interface
– FCM2018-U3 standard operating unit
– FCM2019-U3 operating unit with LEDs

5 RS485
– FCA2016-U1

6 SAFEDLINK
– FN2001-U1 for C-WEB

Connection module (MoNet)
– FCA2031-A1 for CV-WEB

7 Fire terminal board
– FTI2001-U1

8 Back box
– FHB2001-U1 1 HU, black
– FHB2001-R1 1 HU, red

9 DACT
– FCA2015-U1

10 Fiber module (SM and MM)
– FN2006-U1 single-mode fiber for C-WEB
– FN2007-U1 multi-mode fiber for C-WEB

Ethernet switch (modular)
– FN2012-A1 for CV-WEB

Cerberus PRO Intelligent Voice Communication

FV922/FV924 networkable control panels

1 Outer door
– FHD2007-U3 outer door (3HU, 3 win, bl)
– FHD2007-R3 outer door (3HU, 3 win, red)

2 Clear window
– FHD2006-U1 clear window

3 Inner door
– FHD2004-U1 inner door (black)
– FHD2005-U1 inner door (solid, black)

4 Back box
– FHB2005-U1 back box (3HU, black, deep)
– FHB2005-R1 back box (3HU, red, deep)

5 Operating unit
– FCI2018-U3 standard operating unit
– FCI2019-U3 operating unit with LEDs

6 Periphery board
– FCI2016-U1 periphery board, 252 pts
– FCI2017-U1 periphery board, 504 pts

7 Power supply
– FP2012-U1 300W power supply
– FP2013-U1 600W power supply

8 System microphone module
– VTO2004-U3 option module (microphone)

9 Switch module
– VTO2001-U3 option module (24 switches)

10 Voice card cage
– VCA2002-A1 voice card cage

11 Voice CPU card
– VCC2001-A1 voice CPU card

12 Voice I/O card
– VCC2002-A1 voice I/O card

13 Voice amplifier Card
– VCI2001-U1 voice amplifier card (up to 4 supported)

14 Network module
– VN2001-A1 ethernet module (electric/CAT5)
– VN2002-A1 ethernet module (Multi Mode Fiber)
– VN2003-A1 ethernet module (Single Mode Fiber)

15 VoIP module
– VCI2003-A1 VoIP module (required for networking)

16 Connection module (MoNet)
– FCA2031-A1

Basic system modules FV922/FV924

Voice CPU card VCC2001-A1
– Controls all voice modules
Order no.: S54400-A40-A1

Voice I/O card VCC2002-A1
Order no.: S54400-A41-A1

Voice amplifier card VCI2001-U1
– 50 Watt amplifier card
Order no.: S54400-A45-A1

Voice card cage VCA2002-A1
– Mounting VCC2001, VCC2002, VCI2001
Order no.: S54400-A47-A1

Connection module (MoNet) FCA2031-A1
Order no.: S54400-A153-A1

Housings FV922/FV924

Back box FHB2005-U1
– 3 HU, black, deep
Order no.: S54400-B110-A1

Back box FHB2005-R1
– 3 HU, red, deep
Order no.: S54400-B110-A2

Outer door FHD2007-U3
– 3 HU, black, 3 window
Order no.: S54400-B113-A1

Outer door FHD2007-R3
– 3 HU, red, 3 window
Order no.: S54400-B113-A2

Blank plate FHD2009-U1
– Black used in a FHD2007
Order no.: S54400-B114-A1

Blank plate FHD2009-R1
– Red used in a FHD2007
Order no.: S54400-B114-A2

Enclosure cover FHA2041-R1
– Top plate for FHB2005
Order no.: S54400-B93-A1

Battery bracket FHA2042-U1
– Secures 33 AH batteries for seismic approval
Order no.: S54400-B55-A1

Trim kit FHA2043-U1
– 3HU, Black trim kit
Order no.: S54400-B56-A1

Trim kit FHA2043-R1
– 3HU Red trim kit
Order no.: S54400-B57-A1

Inner door FHD2004-U1
– Black
– Supports one operating unit or four modules
Order no.: S54400-B52-A1

Inner door FHD2005-U1
– Solid black
– Covers 1 HU of the enclosure
Order no.: S54400-B53-A1

Option module (Blank) FCM2022-U3
Order no.: S54400-C44-A2

Clear window FHD2006-U1
– Mounts in outer door
Order no.: S54400-C46-A1

Networking modules FV922/FV924

Ethernet module (Electric/CAT5) VN2001-A1
– Network fire and fire/voice panels over Ethernet (CAT5)
Order no.: S54400-A42-A1

Ethernet module (multi-mode fiber) VN2002-A1
– Network fire and fire/voice panels over Ethernet (multimode)
Order no.: S54400-A43-A1

Ethernet module (single-mode fiber) VN2003-A1
– Network fire and fire/voice panels over Ethernet (single-mode)
Order no.: S54400-A44-A1

Remote terminal board (class B) VTA2001-A1
– Supports VTO2001 and VTO2004
Order no.: S54400-F163-A1

Ethernet switch (modular) FN2012-A1
– Network fire to other fire/voice panels (ethernet modules sold separately)
Order no.: S54400-B152-A1

VoIP Module VCI2003-A1
– Required for networked voice panels
Order no.: S54400-A141-A1

Booster amplifier parts and kits FV922/FV924

Booster amplifier main board EBA2004-A1
– 100W, main board
Order no.: S54400-B137-A1

Housing FH2016-U1
– Black enclosure
Order no.: S54400-B138-A1

Housing FH2016-R1
– Red enclosure
Order no.: S54400-B136-A1

Battery fixing bracket FHA2044-U1
– For seismic approval
Order no.: S54400-B167-A1

Power supply (170 W) FP2011-U1
– Incl. connection cable
Order no.: 500-450222

Booster amplifier kit EBA2001-U1
– Booster amplifier main board, black enclosure and FP2011-U1 power supply
Order no.: S54400-B140-A1

Booster amplifier kit EBA2001-R1
– Booster amplifier main board, red enclosure and a FP2011-U1 power supply
Order no.: S54400-B141-A1

Optional modules FV922/FV924

Option module (24 Switches) VTO2001-U3
– Add manual voice control
Order no.: S54400-C60-A2

Option module (Microphone) VTO2004-U3
– Used for paging
Order no.: S54400-C61-A2

Power supply FV922/FV924

Power supply (600W) FP2013-U1
– Consists of two 300W power supplies and a connection cable
Order no.: S54400-Z61-A1

Power supply (300 W) FP2012-U1
– Incl. connection cable
Order no.: S54400-Z60-A1

FV922/FV924 network

Cerberus PRO – intelligent protection

Fire and life safety is all about protecting people and assets and securing business processes and continuity. Cerberus® PRO is an intelligent fire protection system for fast, reliable fire detection, alarm signaling, and control. Its wide portfolio comprises innovative products with intelligent technology. Whether you're looking for a fire only solution or need the additional benefits of of integrated intelligent voice communication with MNS, Cerberus PRO offers comprehensive protection for small to mid-size facilities. Multi-criteria detectors with our unique **ASA***technology*™ offer advanced signal processing, selectable detection profiles, and optional carbon monoxide life safety detection. This provides superb safety and enhanced protection of people and assets, without the threat of false alarms.