

Cerberus PRO

Fire-Alarm Enclosures and Equipment

Models: FHB2001-U1 / R1; FHB2002-U1 / R1; FHB2005-U1 / R1; FHD2001-U3 / R3; FHD2002-U3 / R3; FHD2003-U3 / R3; FHD2004-U1
FHD2004-U1; FHD2005-U1; FHD2006-U1; FHD2007-U3 / R3; FHD2012-U1; FCM2022-U3; FCM2023-U3; VTO2001-U3 & VTO2004-U3

ARCHITECT AND ENGINEER SPECIFICATIONS

- Used with various Siemens fire alarm control panels (FACPs)
- One-height-unit (1HU) | two-height-unit (2HU) | three-height unit (3HU) enclosures
 - Three-height-unit enclosures (3HU) used only on Cerberus PRO Intelligent Voice Communications (IVC) panels
- Inner / outer doors:
 - Blank plates for inner and outer doors
 - Lens plate for outer door
 - Hinged locking door provides easy access to panel components
- Back boxes:
 - Available in either **black** or **red**
 - Model FHB2005-U1 is used only on IVC panels
 - Knockouts for field wiring



- Ground straps (for the inner and outer doors); shield termination lugs; grounding lugs, and tie-wrap lances included
- **UL 864 9th Edition Listed, ULC Listed; FM, CSFM and NYC Fire Dept. Approved**

Product Overview

The Cerberus PRO fire-alarm enclosures and their accessories provide a complete set of hardware for mounting all Cerberus PRO main-system and remote terminal cards and modules.

Besides offering easy capability for a variety of configurable Cerberus PRO system applications, the hardware – by design – allows for future system upgrades. Included in the enclosure series are back box and door sets; removable mounting plates and clear lenses, and blank plates for use with the doors.

All enclosures, which are FM (#3010); FDNY (#6104) and CSFM (#7165-0067:0259) Approved, come with ground straps for the inner and outer doors, shield-termination lugs, grounding lugs, and tie-wrap lances for securing wire.

Cerberus PRO one-height-unit (1HU) and two-height-unit (2HU) enclosures can also mount system back-up batteries up to 33AH in capacity, and three-height-unit (3HU) enclosures can hold back-up batteries up to 55AH.

One-height-unit (1HU) enclosure

For each Cerberus PRO FACP, one (1) **red** or black back box supports one (1) **red** or black outer door, respectively. The black inner door specifically stores the system operating unit (Model FCM2018-U3 or Model FCM2019-U3).

The back box supports the fire-terminal board (Model FTI2001-U1), and optionally supports the Digital Alarm Communication Transmitter [DACT] (Model FCA2015-U1).

The 1HU enclosure is the smallest housing for the Cerberus PRO systems. The following components comprise a complete 1HU enclosure:

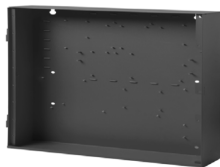
- One (1) back box → (Model FHB2001-U1 / R1)
- One (1) inner door → (Model FHD2004-U1)
- One (1) outer door → (Model FHD2001-U3 / R3)
- One (1) clear lens → (Model FHD2006-U1)

Approximate size: 15" (38.1 cm.) [H];
20" (50.8 cm.) [W];
4.5" (11 cm.) [D]

Cerberus[®] PRO
Fire Safety Products

9807
Enclosures and equipment

Product Overview – (continued)



Model FHB2001-U1
[backbox for One-Height-Unit Enclosures]

Two-height-unit (2HU) enclosure

The two-height-unit enclosure is another available housing for the Cerberus PRO Fire Safety System. The following components comprise a complete 2HU 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.) [H];
20" (50.8 cm.) [W];
6.0" (15.2 cm.) [D]



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

Three-height-unit (3HU) enclosure

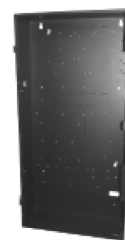
The three-height-unit enclosure is the largest housing available for Cerberus PRO panels, and is used exclusively in IVC installations. The following components comprise a complete 3HU:

- One (1) 3HU back box → (Model FHB2005-U1 / R1)
- Two (2) inner doors → (Model FHD2004-U1)
- Two (2) clear lenses → (Model FHD2006-U1)
- One (1) outer door → (Model FHD2007-U3 / R3)
- One (1) blank plate → (Model FHD2009-U1 / R1)

Note: An enclosure cover (Model FHA2041-R1) is used to protect the ventilation holes found at the top of red-only, 3HU backboxes (Model FHB2005-R1).

Model FHA2041-R1 prevents condensation from entering the FACP. Its design and purpose meets New York City Fire Dept. code for protecting uncovered ventilation holes on fire-system enclosures.

Approximate size: 42" (106.7 cm.) [H];
21" (53.3 cm.) [W];
7.75" (19.7 cm.) [D]



Model FHB2005-U1
[backbox for Three-Height-Unit Enclosures]

Inner doors

Two (2) types of inner doors are generally used with Cerberus PRO panel enclosures. Model FHD2004-U1 supports one (1) operating unit {Model FCM2018-U3, or with LED: Model FCM2019-U3}; one (1) Microphone Module (VTO2004-U3); one Switch Module, or (1) one-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.



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

Optional Inner Door

– Used with Remote Display Terminals –

Additionally, there is an optional inner door that can be used on Cerberus PRO 252 / 504-point addressable control panels. Model FHD2012-U1 can optionally mount with Model FT201x-series Remote Display Terminals (RDTs).

Having a Model FHD2012-U1 inner door can help in preventing unauthorized access to the RDT.



Note: In compliance of | Canadian fire code, the Model FHD2012-U1 Inner Door must be ordered and used in RDT installations. Customers in Canada can see datasheet, #9807C, for more information.

DIN rail kit

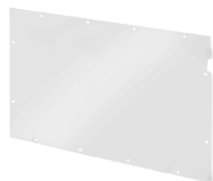
The optional DIN Rail Kit (Model FHA2031-U1) mounts in the back box of a one or two-height-unit enclosure, and provides connection between internal-system wiring and field wiring.

Product Overview — (continued)

Outer-door clear window

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

Approximate size: 10.25" (26.04 cm.) [H];
17" (43.2 cm.) [W]



**Model
FHD2006-U1**

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 2HU enclosure.

For IVC installations, an optional 3HU trim kit can be used to provide an aesthetically pleasing appearance to an IVC enclosure when used in flush-mount applications. Each of these trim kits, available in either **black** (Model FHA2043-U1) or **red** (Model FHA2043-R1), comes unassembled in four (4) detachable slats for easy shipping.



**Model
FHA2043-U1**

Battery brackets

For Cerberus PRO fire-only systems, a Model FHA2032-U1 battery bracket can be mounted optionally into a system backbox in order to secure batteries up to 33AH. For Cerberus PRO IVC panels, a Model FHA2042-U1 battery bracket can be mounted optionally into a system backbox in order to hold batteries up to 33AH.

Temperature and Humidity Range

Products are ®UL 864 9th Edition Listed for indoor dry locations within a temperature range of 120 +/- 3°F (49 +/- 2°C) to 32 +/- 3°F (0 +/- 2°C) and a relative humidity of 93 +/- 2% at a temperature of 90 +/- 3°F (32 +/- 2°C).

Technical Data

Outer Door / Back Box	Material	Sheet metal 0.062"
	Colors	Red or black
Inner Doors	Material	Sheet metal 0.062"
	Surface treatment	Galvanized, annealed
Clear-Lens Window	Material	Rugged clear Lexan®
PRO TYPE C A I S E	Outer Door / Back Box: { W -x- H -x- D }	28.1" -x- 21.5" -x- 1.0" (19.7 cm. -x- 9.8 cm. -x- 4.5 cm.)
	Inner Door: { W -x- H -x- D }	20.6" -x- 13.3" -x- 0.7" (13.0 cm. -x- 9.8 cm. -x- 6.4 cm.)
	Optional Inner Door: { W -x- H -x- D }	20.4" -x- 13.3" -x- 2.3" (51.8 cm. -x- 33.8 cm. -x- 5.8 cm.)
	Window: { W -x- H -x- D }	16.6" -x- 8.3" -x- 0.13" (19.7 cm. -x- 9.8 cm. -x- 4.5 cm.)

Details for Ordering

Model	Part Number	Description
FHA2031-U1	S54400-B44-A1	OPTIONAL DIN Rail Kit
FHA2032-U1	S54400-B43-A1	OPTIONAL Battery Bracket
FHA2035-U1	S54400-B42-A1	OPTIONAL 1HU Trim Kit, black
FHA2035-R1	S54400-B44-A2	OPTIONAL 1HU Trim Kit, red
FHA2036-U1	S54400-B41-A1	OPTIONAL 2HU Trim Kit, black
FHA2036-R1	S54400-B42-A2	OPTIONAL 2HU Trim Kit, red
FHB2001-U1	S54400-B47-A1	1HU back box, black
FHB2001-R1	S54400-B47-A2	1HU back box, red
FHB2002-U1	S54400-B48-A1	2HU back box, black
FHB2002-R1	S54400-B48-A2	2HU back box, red
FHB2005-U1	S54400-B110-A1	3HU back box, black
FHB2005-R1	S54400-B110-A2	3HU back box, red
FHD2001-U3	S54400-B45-A1	1HU outer door, black
FHD2001-R3	S54400-B40-A1	1HU outer door, red
FHD2002-U3	S54400-B32-A1	2HU outer door with one (1) window, black
FHD2002-R3	S54400-C53-A1	2HU outer door with one (1) window, red
FHD2003-U3	S54400-C42-A1	2HU outer door with two (2) windows, black
FHD2003-R3	S54400-B46-A1	2HU 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
FHD2007-U3	S54400-B113-A1	3HU outer door, black
FHD2007-R3	S54400-B113-A2	3HU outer door, red
FHD2012-U1	S54400-C135-A1	OPTIONAL Inner door, black (used with remote display terminals)
VTO2001-U3	S54400-C60-A2	Option Module, 24 switches
VTO2004-U3	S54400-C61-A2	Option Module, Microphone

Details for Ordering

– Enclosure Kits: One-Height-Units –

Model	Part Number	Description
FHK2001-U3	S54400-C54-A1	1HU Enclosure Kit, Black
		Includes: FHB2001-U1 (1 Qty.) FHD2001-U3 (1 Qty.) FHD2004-U1 (1 Qty.) FHD2006-U1 (1 Qty.)
FHK2001-R3	S54400-C54-A2	1HU Enclosure Kit, Red
		Includes: FHB2001-R1 (1 Qty.) FHD2001-R3 (1 Qty.) FHD2004-U1 (1 Qty.) FHD2006-U1 (1 Qty.)

– Enclosure Kits: 252 | 504-point IVC Panels –

Model	Part Number	Description
FHK2004-U3	S54400-C168-A1	3HU IVC Enclosure Kit, Black
		Includes: FHB2005-U1 (1 Qty.) FHD2004-U1 (2 Qty.) FHD2006-U1 (2 Qty.) FHD2007-U3 (1 Qty.) FHD2009-U1 (1 Qty.)
FHK2004-R3	S54400-C169-A1	3HU IVC Enclosure Kit, Red
		Includes: FHB2005-R1 (1 Qty.) FHD2004-U1 (2 Qty.) FHD2006-U1 (2 Qty.) FHD2007-R3 (1 Qty.) FHD2009-R1 (1 Qty.)

– Enclosure Kits: 252 | 504-point FIRE-only FACPs –

Model	Part Number	Description
FHK2002-U3	S54400-C55-A1	2HU with One (1) Window Enclosure Kit, Black
		Includes: FHB2002-U1 (1 Qty.) FHD2002-U3 (1 Qty.) FHD2004-U1 (1 Qty.) FHD2006-U1 (1 Qty.)
FHK2002-R3	S54400-C55-A2	2HU with One (1) Window Enclosure Kit, Red
		Includes: FHB2002-R1 (1 Qty.) FHD2002-R3 (1 Qty.) FHD2004-U1 (1 Qty.) FHD2006-U1 (1 Qty.)
FHK2003-U3	S54400-C56-A1	2HU with Two (2) Windows Enclosure Kit (for use w/ LEDs), Black
		Includes: FHB2002-U1 (1 Qty.) FHD2003-U3 (1 Qty.) FHD2004-U1 (1 Qty.) FHD2006-U1 (1 Qty.)
FHK2003-R3	S54400-C56-A2	2HU with Two (2) Windows Enclosure Kit (for use w/ LEDs), Red
		Includes: FHB2002-R1 (1 Qty.) FHD2002-R3 (1 Qty.) FHD2004-U1 (1 Qty.) FHD2006-U1 (1 Qty.)

Notes: A 252-point addressable fire-only panel is Model FC922.
A 252-point addressable IVC panel is Model FV922.
A 504-point addressable fire-only panel is Model FC924.
A 504-point addressable IVC panel is Model FV924.

Related Documentation

Data Sheet Number	Description
9800	Cerberus PRO (system-components overview)
9815	Cerberus PRO (252/504-point addressable FIRE systems)
9821	Cerberus PRO (252/504-point addressable IVC systems)

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.

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