





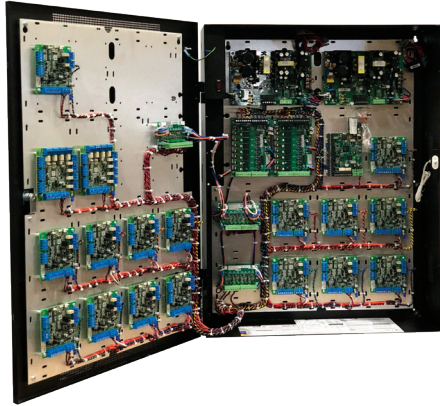




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SECURITY MANAGEMENT SYSTEM (SMS)

ENCL-WV8/ENCL-WV16 Pre-Wired Custom Enclosures Vanderbilt Footprint



Overview

Vanderbilt Pre-Wired Custom Enclosures are designed to help maintain consistency throughout installations. Each enclosure comes pre-wired and pre-tested with dual voltage power and battery backup included. Save time during installation and maintenance with these all-in-one boxes. Identical layout and configuration throughout a facility will aid installers in providing swift service.

Lock control module provides eight/sixteen access control inputs capable of voltage or dry contact activation, and eight/sixteen outputs programmable for failsafe or failsecure operation at either 12 or 24VDC, controlled by the integrated fire alarm interface circuit on the power supply.

Auxiliary module provides sixteen/thirty-two class II outputs with each output configurable for 12 or 24VDC operation.

Enclosures are painted steel with removable backplate and include lock, two (2) keys and tamper switch.

For use with Vanderbilt SMS Access Control System and specified Vanderbilt hardware panels.

Powered by LifeSafety.



✓ KEY FEATURES

- Pre-wired and pre-tested enclosures
- Power locks (max 24VDC), read-heads, PIR motion detectors, local annunciators and on-board components
- Design allows for easy replacement of all components
- Significantly reduces manpower requirements during installation
- Decreases disruption in a client's daily business
- Panel placement and wiring allow for consistent installations
- On board Fire Alarm Interface
- Automatic switchover to standby battery if AC fails
- Each door has tamper protection

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✓ ENCL-WV8

Pre-wired Enclosure for Vanderbilt Panels - 8 Doors

- Vanderbilt pre-wired custom enclosure for power and data. Dual voltage 6A/12VDC for access control system power and 6A/24VDC for lock power and peripherals.
- (8) relay lock outputs with FAI control; each output selectable for 12VDC or 24VDC.
- (8) auxiliary outputs for the installer – PTC protected, Class 2 power limited; each output selectable for 12VDC or 24VDC. (8) auxiliary outputs for powering the Vanderbilt boards, Class 2 power limited, preset for 12VDC.
- Painted steel with removable backplate; includes lock, two (2) keys and tamper switch and (2) 12VDC 7Ah backup batteries.
- Available slots for (1) Vanderbilt VSRC-A Controller and (8) VRINX Reader Interfaces (panels sold separately).
- Size: 30H x 23W x 6.5D in. | Weight: 60 lbs. without panels. UL Listed. Powered by LifeSafety.

✓ ENCL-WV16

Pre-wired Enclosure for Vanderbilt Panels - 16 Doors

- Vanderbilt pre-wired custom enclosure for power and data. Dual voltage 12A/12VDC for access control system power and 10A/24VDC for lock power and peripherals.
- (16) relay lock outputs with FAI control; each output selectable for 12VDC or 24VDC.
- (16) auxiliary outputs for the installer – PTC protected, Class 2 power limited; each output selectable for 12VDC or 24VDC. (16) auxiliary outputs for powering the Vanderbilt boards, Class 2 power limited, preset for 12V.
- Painted steel with removable backplate; includes lock, two (2) keys and tamper switch and (3) 12VDC 7Ah backup batteries.
- Available slots for (1) Vanderbilt VSRC-A Controller, (16) VRINX Reader Interfaces and (2) VIONX-8 Input/Output Boards (panels sold separately).
- Size: 30H x 23W x 6.5D in. | Weight: 60 lbs. without panels. UL Listed. Powered by LifeSafety.

✓ E4-3BS1-VB

Battery Enclosure

- Enclosure provides additional space for backup battery sets; (3) 4" shelves.
- Black powdercoat finish. Includes lockset and tamper switch. Batteries not included.
- Size: 24H x 20W x 4.5D in. (61 x 50 x 11.50 cm) Weight: 25 lbs.

Specifications

Input Power	Overload and short circuit protection Over temperature protection Polarized AC power supply disconnect
Output Power	Outputs: Continuous (DC1) Resettable (DC2)
Battery Charging	Independent built-in 2A charger for sealed lead acid or gel type batteries Microprocessor dual rate charging of 12 or 24 V battery sets Charges up to 80Ah battery sets within UL limit Automatic switchover to standby battery when AC fails Zero voltage drop when switched over to battery backup
Supervision	AC Fail (form "C" contacts) System Fault (form "C" contacts) may be triggered by low/no battery, short to earth ground, power supply failure or blown fuse
Visual Indicators	AC input, DC1 and DC2 output System fault, AC fault, short to earth ground, reverse battery polarity Fire Alarm Input activated
Regulatory Compliance	UL294, UL603, UL1076, ULC S318, ULC S319
Mercury/LSP	CSA C22.2 #107.1, CSA 22.2 #60950
Joint Listing	CSFM / FCC Part 15, Subpart B, CE
Enclosure Dimensions	Size: 24.00H x 20.00W x 4.50D in. (61.00 x 50.00 x 11.50 cm)
Access Panel Mounting	VSRC-A, VRINX, VIONX-8

Ordering Information

ENCL-WV8	Pre-wired Enclosure for Vanderbilt Panels - 8 Doors
ENCL-WV16	Pre-wired Enclosure for Vanderbilt Panels - 16 Doors
Panels sold separately; wiring for Vanderbilt configuration only	
OPTIONS	
E4-3BS1-VB	Vanderbilt Battery Enclosure with 3 shelves Batteries not included.
VBAT-127	12VDC 7Ah Battery

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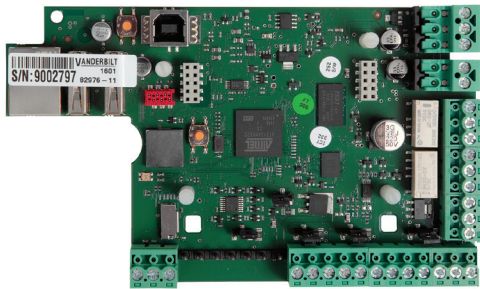
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SECURITY MANAGEMENT SYSTEM (SMS)

VSRC-A Dual Reader Controller



Overview

The Vanderbilt Industries Dual Reader Controller (VSRC-A) is an intelligent device with a modular approach. The VSRC-A is an independently programmable device that effectively combines the capabilities of a controller and two (2) reader interfaces into a single board. It communicates with the Security Management System software via TCP/IP protocol and can be connected to a variety of different read head technologies and electronic locking devices. The communication architecture is capable of being fully networked thereby saving the customer wiring and expensive installation labor costs.

The VSRC-A supports Enhanced Offline Mode - in the event of network connectivity loss, the system will utilize a local copy of the latest database and will cache transactions for upload once the network connection is restored. Visual on-board status indicators make for easy identification of processes during installation and service, including CIM communication, relay status, board type and more. Convenient on-board reset button allows for graceful shutdown of controller. Includes enclosure with a tamper switch, lock and key.



✓ KEY FEATURES

- On-board reader interface support for one (1) or two (2) doors (depending on I/O support required)
- Four contact inputs
- Two form C, single pole/double throw, mechanically latching 2A relays
- Configurable for support of up to 16 devices (on-board reader interfaces disabled with 16 device configuration; VRCNX-A Controller with backplate recommended for >2 devices for easy installation)
- On board 10/100 Base-T Ethernet connection
- Two RS-485 channels of 8 multi-dropped terminal strips
- User configurable password protection
- Fully encrypted using SSL certificate

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Specifications

Dimensions 3.5"H x 6"W x 7/8"D

Enclosure 7 1/2"H x 8 1/4"W x 2 3/4"

Power Requirements 12-24 VDC

Power Consumption 12VDC: 200mA
24VDC: 125mA
(without read head)

Ambient Temperature -40°F to 131°F
-40°C to 55°C

Humidity 77°F@ 80%; 131°F@ 93%
25°C@ 80%; 55°C@ 93%

Recommended Data Cable 18 AWG/2 COND, stranded, shielded, twisted (up to 4000') to RS-485 channel devices

Recommended Power Cable 18 AWG/2 COND, stranded, shielded, twisted (up to 500'); devices beyond 500' should be powered locally

Requires a UL 294 power limited power supply capable of 4 hours standby power

UL 294 Certified

Compatible with SMS software v5.3.5 SP2 and higher as noted below:
 • v5.3.5 SP2 to v6.3.5 supports one (1) on-board Reader Interface
 • v6.4.0 and higher includes programming templates for support of (2) on-board Reader Interfaces

Ordering Information

VSRC-A Dual Reader Controller

OPTIONS

VRINX Single Reader Interface

VIONX-8 Input/Output Expansion Board

VRI-1S3 Single Reader Interface

VRI-2S3 Dual Reader Interface

VI-16INS3 Input Monitor Module

VI-16OS3 16 Relay Output Module

Note: Can be ordered without enclosure. Use (NB) to specify no box.

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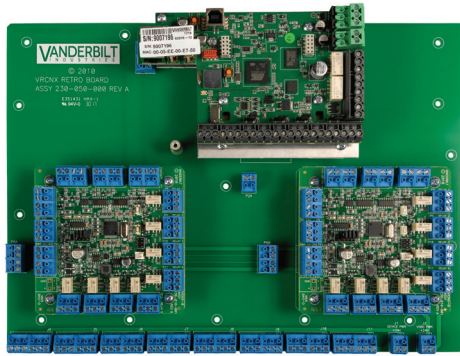
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SECURITY MANAGEMENT SYSTEM (SMS)

VRCNX-A Reader Controller



Overview

The Reader Controller Board (VRCNX-A) is a newly designed controller with updated technology that incorporates additional memory and input/output capabilities onto a single back board for easy installation. The back board includes a VSRC-A Smart Reader Controller and connections for a VIONX-8 or VI-16IN Input and VI-16O Output Module. Compatible with the Vanderbilt Industries Security Management System software, the VRCNX-A supports up to (16) devices.



✓ KEY FEATURES

- On board 10/100 Base-T Ethernet connection
- Two RS485 channels of 8 multi-dropped terminal strips
- 256 MByte of NAND Flash and 128 MByte of DDR2 SDRAM Memory
- Configuration options allow support for up to (16) devices* and connections for an additional VI-16IN 16 Input Monitor Module and VI-16O 16 Relay Output Module.
- Enhanced Offline Mode
- Supports most card readers (wiegand devices)
- Supports Schlage Networked and Wireless Locks
- Supports ASSA ABLOY IP/WiFi and Aperio Locks
- User configurable password protection
- Fully encrypted using SSL certificate

**on-board reader interfaces disabled on VRCNX-A Controller*



Specifications

Dimensions	11 ¾" H x 13" W x 2 ¼" D
Enclosure	17" H x 17" W x 2-3/4" D
Power Requirements	12-24 VDC
Power Consumption	360mA MAX (w/2 VIONX-8 mounted)
Ambient Temperature	-55°C to +85°C or -67°F to 185°F
Humidity	10% to 95% RHNC
Recommended Data Cable	18 AWG/2 COND, stranded, shielded, twisted (up to 4000') to RS-485 channel devices
Recommended Power Cable	18 AWG/2 COND, stranded, shielded, twisted (up to 500'); devices beyond 500' should be powered locally
Compatible with SMS software v5.3.5 SP2 and higher	
UL 294 Certified	

Ordering Information

VRCNX-A	Reader Controller Board Includes one VSRC-A Reader Controller mounted on a back board. Includes enclosure.
OPTIONS	
VIONX-8	Input/Output Expansion Board
VRINX	Single Reader Interface
VI-16INS3	16 Input Monitor Module
VI-16OS3	16 Relay Output Module
VRI-1S3	Single Reader Interface
VRI-2S3	Dual Reader Interface
Note: Can be ordered without enclosure. Use (NB) to specify no box.	

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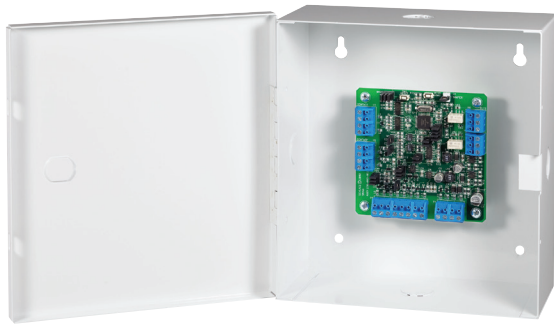
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SECURITY MANAGEMENT SYSTEM (SMS)

VRINX Reader Interface



Overview

The VRINX Reader Interface offers a cost effective, modular approach to access control system design in all environments. Vanderbilt Industries Reader Interfaces can be used in smaller systems as well as large installations with thousands of readers. The VRINX communicates directly with the Vanderbilt Reader Controller. Vanderbilt VRINX Reader Interfaces are capable of running in degraded mode, allowing for local decision making, if communication fails between the Reader Interface and the Reader Controller. Includes enclosure.



✓ KEY FEATURES

- VRINX connects one read head to a Vanderbilt reader controller via RS-485 protocol
- Supports proximity, smart card, magnetic stripe, biometrics, bar code and Wiegand technologies
- Two Form "C", single pole/double throw, mechanically latching 1 A relay outputs
- Four supervised or unsupervised contact inputs
- Degraded mode
- Metal enclosure with hinged and dual screw door
- On board connection for tamper switch
- Tamper switch, lock and key option available



Specifications

Dimensions	3-13/16" H x 3-13/16" W x 3/4" D
Enclosure	7-1/2" H x 8-1/4" W x 2-3/4" D
Power Requirements	14 - 24VDC, can be powered from reader controller or locally
Power Consumption	120mA (without read heads)
Ambient Temperature	0°C to 49°C or 32°F to 120°F
Humidity	10% to 90% (non-condensing)
Recommended Cable	18 AWG/2 COND, Stranded, Shielded, Twisted (RS485 data only)

Maximum RS485 (data) distance between reader controller to VRINX is 4,000 feet with local power. RS-232 communication also available.

UL 294 Approved

Ordering Information

VRINX

Single Reader Interface

Note: VRINX can be ordered without enclosure. Use (NB) to specify no box.

OPTIONS

VLOCK

Enclosure Lock (comes with (2)
keys, tamper switch and cables)

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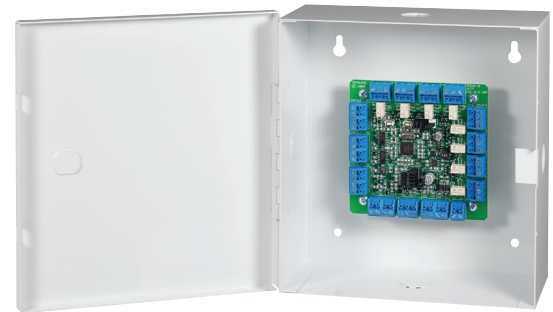
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VIONX-8

Input Output Board

OVERVIEW

The Vanderbilt Industries Input/Output Expansion Board (VIONX-8) provides 8 contact inputs and 8 SP/DT relay outputs. The VIONX-8 communicates directly to any of the VRCNX or VSRC reader controller boards. The VIONX-8 supports universal triggers, which integrates any input associated with any output response or a multitude of output responses. The VIONX-8 integrates alarm control and/or elevator floor control. Includes enclosure.



FEATURES AND BENEFITS

- VIONX-8 connects to the reader controller via RS-485 protocol
- 16Kb flash memory and 1Kb RAM
- Two serial ports (RS232 or RS485)
- (8) supervised or unsupervised contact inputs
- Contacts can be defined as alarms, door status, egress, or other environmental conditions
- (8) Form "C" single pole/double throw, mechanically latching 1 A relay outputs
- Metal enclosure with hinged and dual screw door
- Connection for on-board tamper switch
- Tamper switch, lock and key option available
- BAA compliant

ELEVATOR CONTROL

- One or more VIONX-8 boards can be used to provide individual elevator floor control
Each VIONX-8 is capable of up to 8 floors
(1 contact per floor)

SPECIFICATIONS

Dimensions:	4-3/16" H x 4-3/16" W x 1/2" D
Enclosure:	7-1/2" H x 8-1/4" W x 2-3/4" D
Power requirements:	14 - 24VDC; powered locally
Ambient temperature:	0°C to 49°C or 32°F to 120°F
Maximum RS485 (data) distance between reader controller to VIONX-8 is 4,000 feet with local power	
Recommended cable:	18AWG/2 COND Stranded, Shielded, Twisted (RS485 data only)
UL 294 Approved	

ORDERING INFORMATION

VIONX-8 Input/Output Expansion Board

VLOCKRI Enclosure Lock (comes with (2) keys, tamper switch and cables)

Note: VIONX-8 can be ordered without enclosure.
Use (NB) to specify no box.



Overview

LifeSafety Power battery enclosures provide additional space for backup battery sets. Prebuilt enclosures are available in two different sizes with multiple shelf configurations for flexibility in battery options. Black powdercoat finish matches other LifeSafety Power equipment.

LifeSafety Power battery enclosures come standard with lockset and tamper switch.

Features

- Locking enclosures provide consistent look with other LifeSafety Power equipment
- 4" battery shelf accommodate multiple batteries with the sizes indicated in the following diagrams
- Multiple shelves can be used within an enclosure for additional battery capacity
- Enclosures can be configured for 12V, 24V, or simultaneous 12 & 24V use
- Pre-installed lock set and tamper switch

Model No.	Height x Width x Depth	Weight
E2-BS1	20 x 16 x 4.5" (51 x 41 x 12cm)	18 lbs. (8.0 kg)
E2-2BS1	20 x 16 x 4.5" (51 x 41 x 12cm)	18 lbs. (8.0 kg)
E4-2BS1	24 x 20 x 6.5" (61 x 51 x 16.5cm)	30 lbs. (14 kg)
E4-3BS1	24 x 20 x 6.5" (61 x 51 x 16.5cm)	30 lbs. (14kg)
BS1*	15 x 4" (38 x 10cm)	0.5 lbs. (.23 kg)

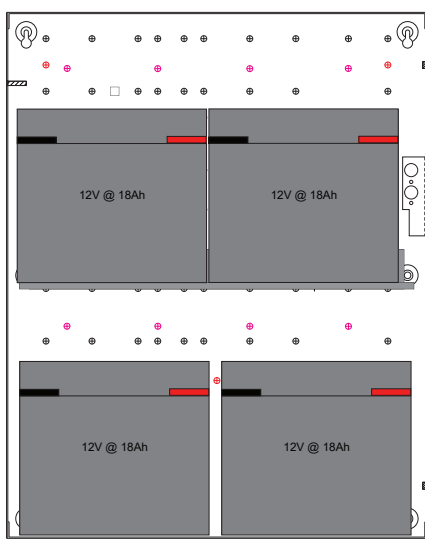
All enclosures come with lock and tamper switch

Model No.	Description
E2-BS1	E2 Enclosure (1) shelf
E2-2BS1	E2 Enclosure (2) shelves
E4-2BS1	E4 Enclosure (2) shelves
E4-3BS1	E4 Enclosure (3) shelves
BS1*	Single Battery Shelf Bracket

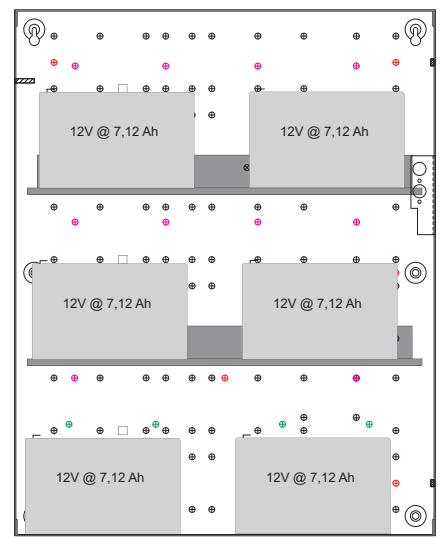
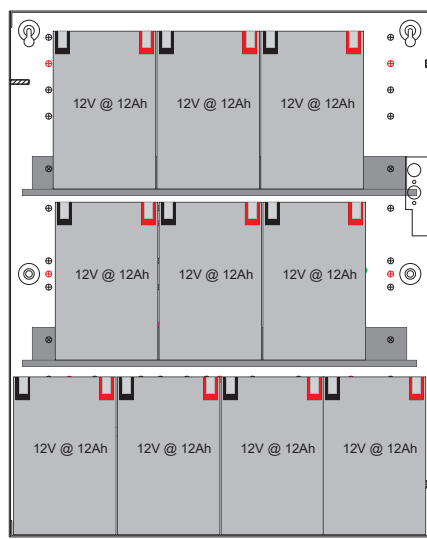
**Not UL Listed*

E2 Enclosure Battery Accomodation

E2-BS1 - One shelf

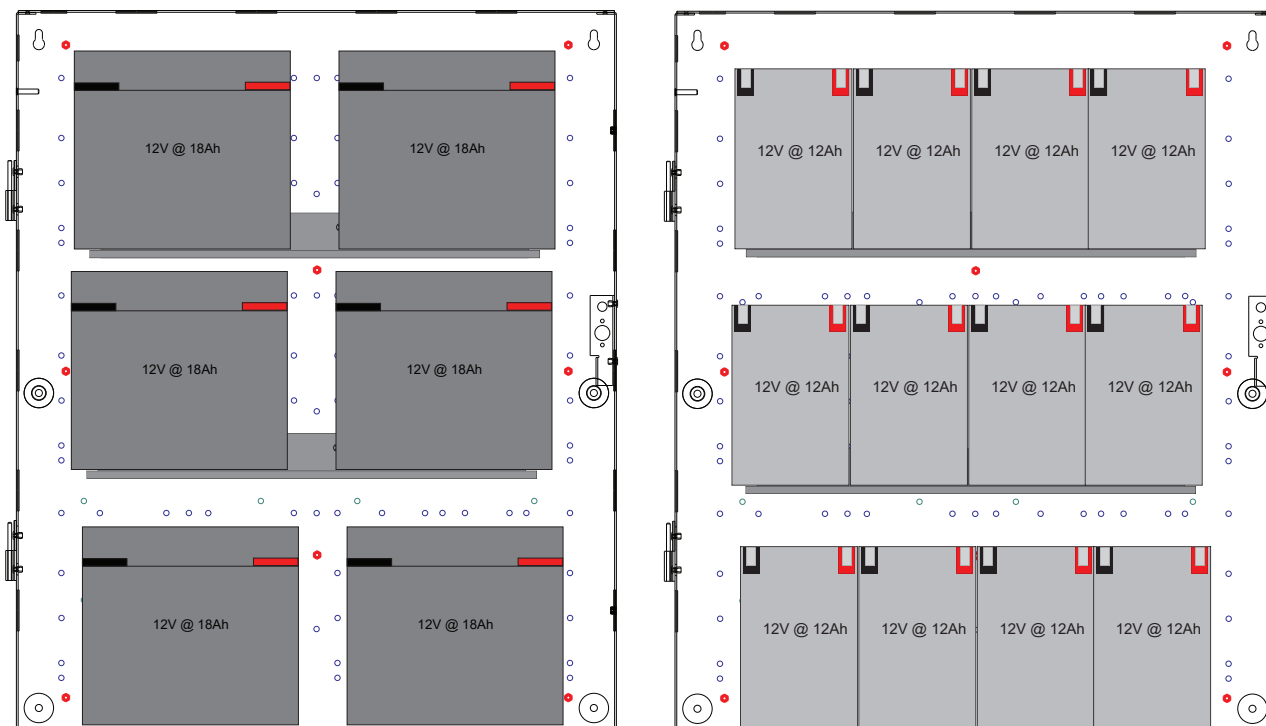


E2-2BS1 - Two shelves

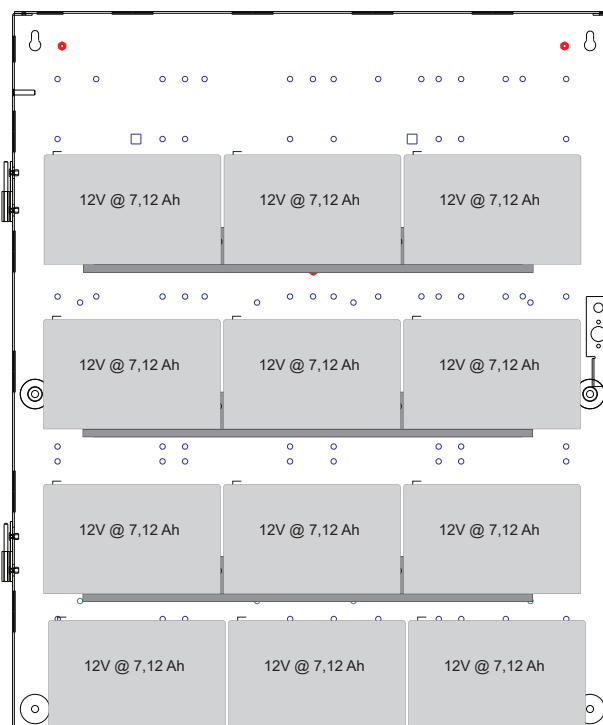


E4 Enclosure Battery Accomodation

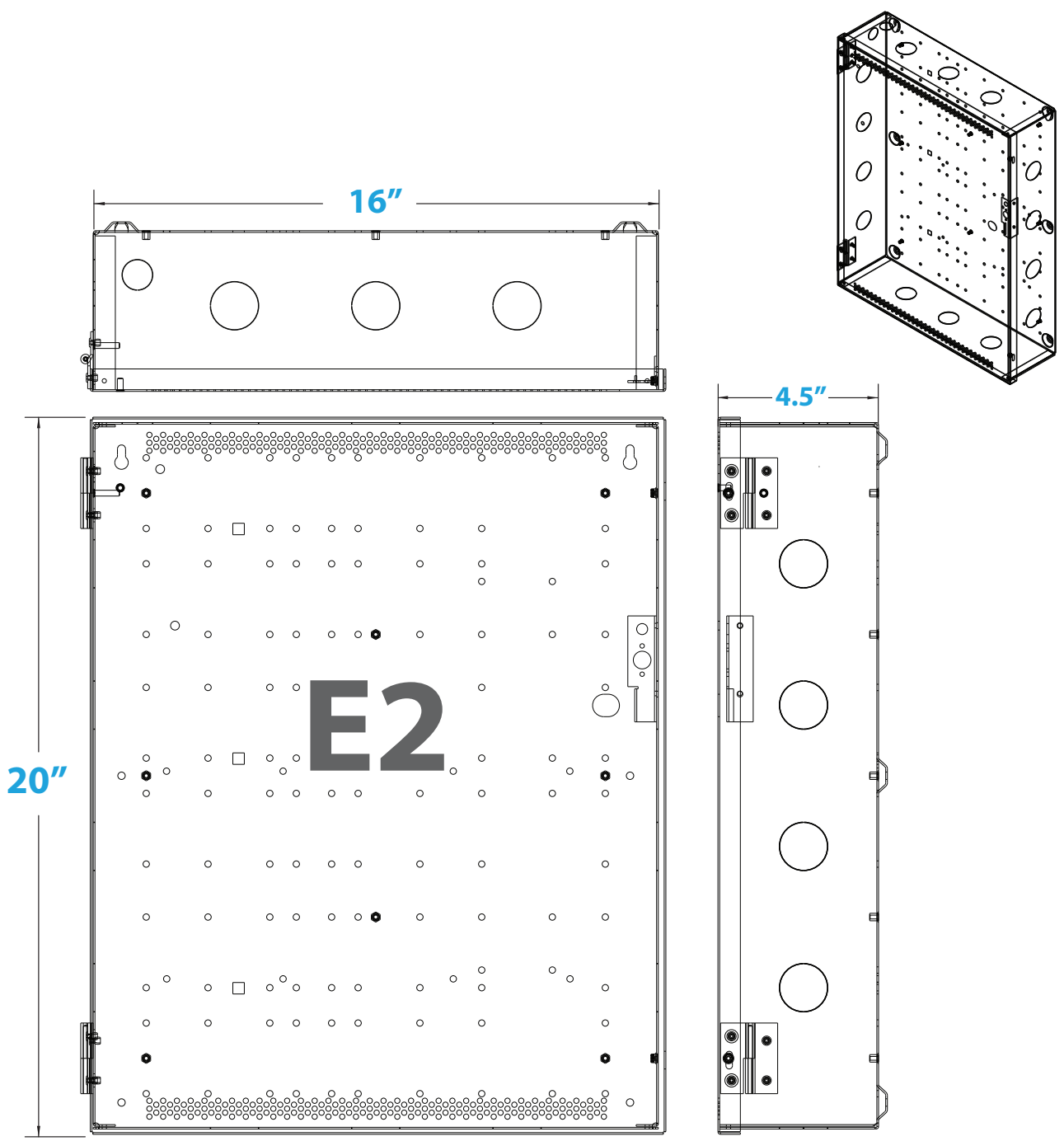
E4-2BS1 - Two shelves



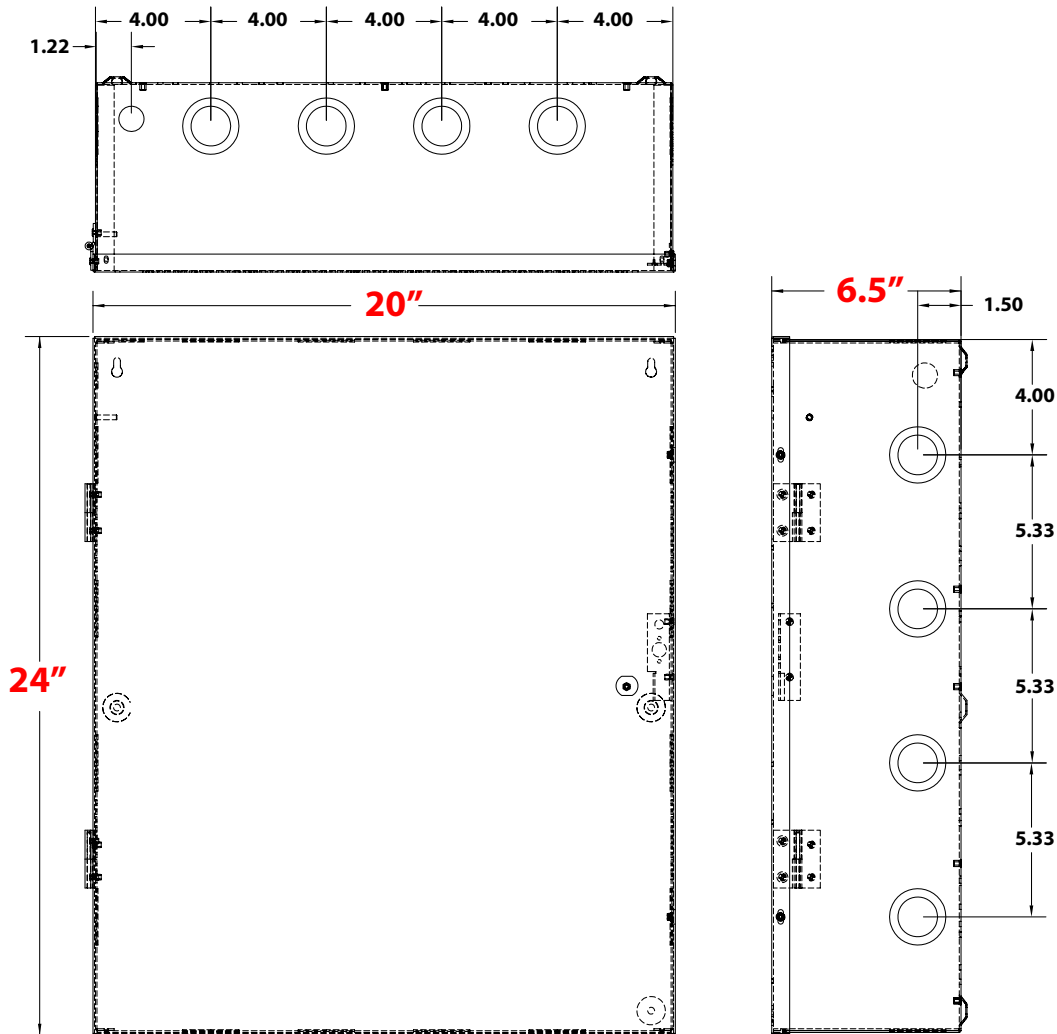
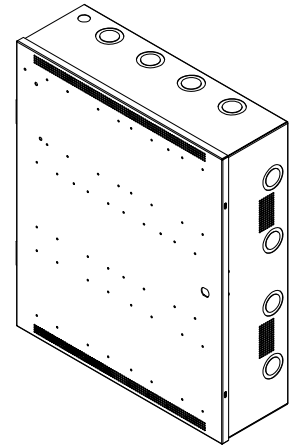
E4-3BS1 - Three shelves



E2 Enclosure Dimensions (H x W x D) 20.00" x 16.00" x 4.50" (51 x 41 x 12 cm)



E4 Enclosure Dimensions (H x W x D) 24.00" x 20.00" x 6.50" (61 x 51 x 16.5 cm)



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Specifications subject to change without notice.

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