Datasheet SYS-16ENT-DVE6

AVIGILON™

12/24V 16-Door Large Smart Hub

Expandable access control for the modern workplace

Smart Hubs are shipped unassembled.

Seamlessly expand your access control with our modular Core Series Smart Hub that features configurable inputs, encryption at every level, and powerful, cloud-based management to enable secure, dynamic access control for any facility. The Smart Hub connects to expansion boards that include ports for 16 Avigilon Smart Readers, Request to Exit (REX) inputs, and Contact Sensors. It uses RS-485 wiring to connect to the Smart Readers and is powered by the built-in 12VDC and 24VDC supplies.

Seamlessly expand and scale

This Smart Hub is designed to handle a single closet or single floor deployment with its 16-door configuration with integrated power for locking hardware.

Premium hardware for best performance

The Smart Hub features a future-proof Access Control Core that securely makes all entry decisions. It features a 12/24VDC large power supply and expansion boards. Take advantage of the larger enclosures for easy cable management.

Easy management with smart monitoring

Network and device monitoring systems built in to ensure a smooth experience for our users, with remote diagnostic and troubleshooting capabilities to resolve any issues with ease.

100% remote cloud management

Do more with less by securely and easily connecting to the cloud for remote system management, diagnostics, and communication.

Hassle-free installation

Aluminum backplate and plug-and-play design allows for easy expansion, customization and mounting, with interoperability to integrate with physical on-premise systems and logical software-based systems.

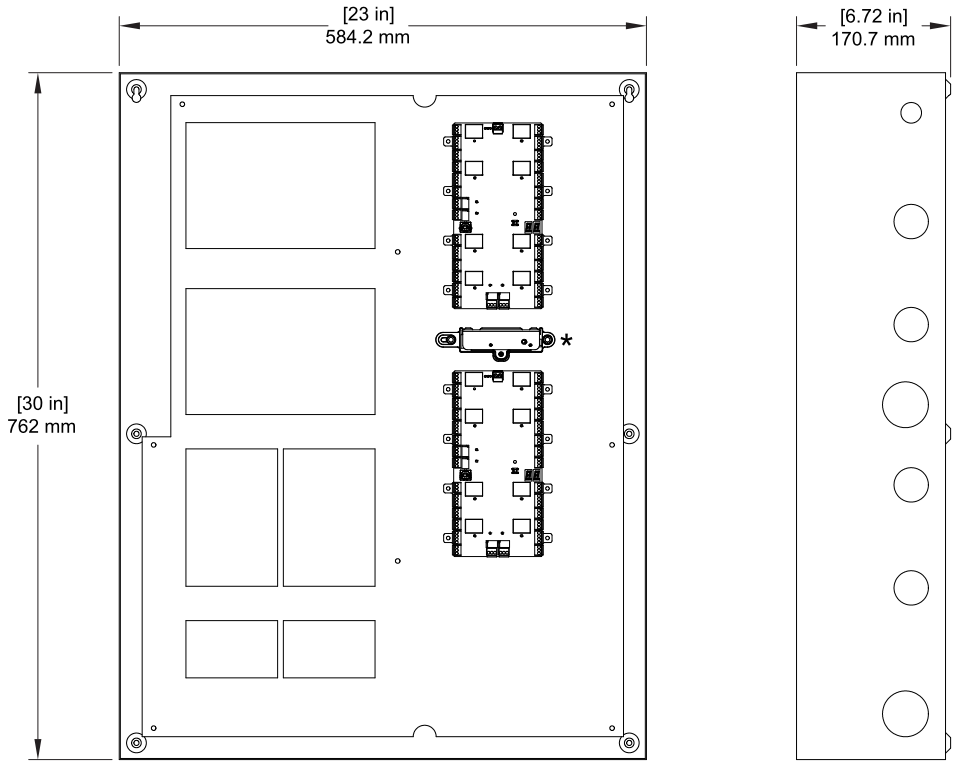
Lifetime limited warranty

Ensure peace of mind, knowing that Avigilon stands behind its access control hardware with a lifetime limited warranty, guaranteeing the quality of your security solution.

MOTOROLA SOLUTIONS

Specifications

SYSTEM	
Access Control	Up to 16 Avigilon Smart Readers
Door Relays	16 relays, 5A @ 24VDC (resistive)
Auxiliary Relays	8 relays, 1A @ 24VDC 8 auxiliary relays and 8 configurable auxiliary I/O pins provide extra inputs and outputs, and allow more sensors or Wiegand devices
Avigilon Readers	Up to 16 Avigilon Smart Readers Uses industry standard RS-485 signaling to communicate with Avigilon readers over standard wiring
Communication Ports	10/100/1000 baseT Ethernet; USB port TLS 1.2+ encryption between Access Control Core and access control cloud service
REX and Contact Sensors	16 REX and 16 contact sensor inputs with EOL monitoring, nominal 5VDC, 1kohm to each input
Auxiliary Inputs	8 input lines with EOL monitoring
Power Supplies	FPO250: 10A @ 24V or 20A @ 12V FPO150: 6A @ 24V or 12A @ 12V
Backup Battery	For 24V supply, use two 12VDC sealed lead acid (SLA) or gel cell batteries in series For 12V supply, use one 12VDC SLA battery

MECHANICAL	
Dimensions	 *Use of mounting bracket is required for large-capacity Smart Hub models.
Weight	Approx. 45 lbs (20.41 kg)
Power Supply	LifeSafety Power® E6 enclosure pre-installed with 24V FP0250 Power Supply, 12V or 24V FP0150 Power Supply, two C8 Relay Based Lock Control Modules, and two D8P Power Distribution Modules

MECHANICAL	
Wiring	Uses RS-485 wiring to connect to the Avigilon Smart Readers EOL monitoring with single or double termination on all REX, Contact, and Auxiliary inputs supported with user-installed 1k resistors

ELECTRICAL	
Input Voltage	120VAC, 208VAC, 230VAC 50/60Hz (user selectable AC input)
Input Current	FP0150: 2.5A max. FPO250: 3.2A max.
Operating Voltage	12VDC and 24VDC
Operating Current	5.9A @ 12VDC with 16 Avigilon Smart Readers 3.2A @ 24VDC with 16 Avigilon Smart Readers
Current for Locking Hardware	12V-only system: 26A 24V-only system: 12.8A 12V and 24V system: Varies based on configuration

ENVIRONMENTAL	
Operating Temperature	0°C to 50°C (32°F to 122°F)
Operating Humidity	5% to 85% relative, non-condensing

REGULATORY	
Certifications	CE (Europe), IC (Canada), FCC (United States), NOM (Mexico), RoHS, UKCA (United Kingdom), UL 294*, CAN/ULC 60839-11-1 *Performance Levels: Attack Level I, Endurance Level I, Line Security Level I, Standby Power Level I

WARRANTY	
Avigilon Alta Access Warranty	Lifetime limited; for more information, visit avigilon.com/support/warranty

Ordering Information

PART NUMBER	DESCRIPTION
SYS-16ENT-DVE6	Avigilon 12/24V 16-Door Large Smart Hub - E6 Enclosure Shipped separately: Avigilon Access Control Core (OP-CR-ACC), two Avigilon 8-Port Boards (OP-EX-8E)

Support

For product support, visit: avigilon.com or sales@avigilon.com

For more information, visit:
avigilon.com/access-control/12-24v-16-door-core-series-large-smart-hub

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