SiPass Entro …

… Open the door to comprehensive security.

SiPass Entro

Comprehensive access control

SiPass Entro is a very scalable, flexible, and user-friendly access control system that can monitor and control access to facilities with up to 512 doors and 40,000 cardholders. It enables customized access rights by categories and offers a complete range of reports. System configuration is simple and an extensive range of reader and card options are available.

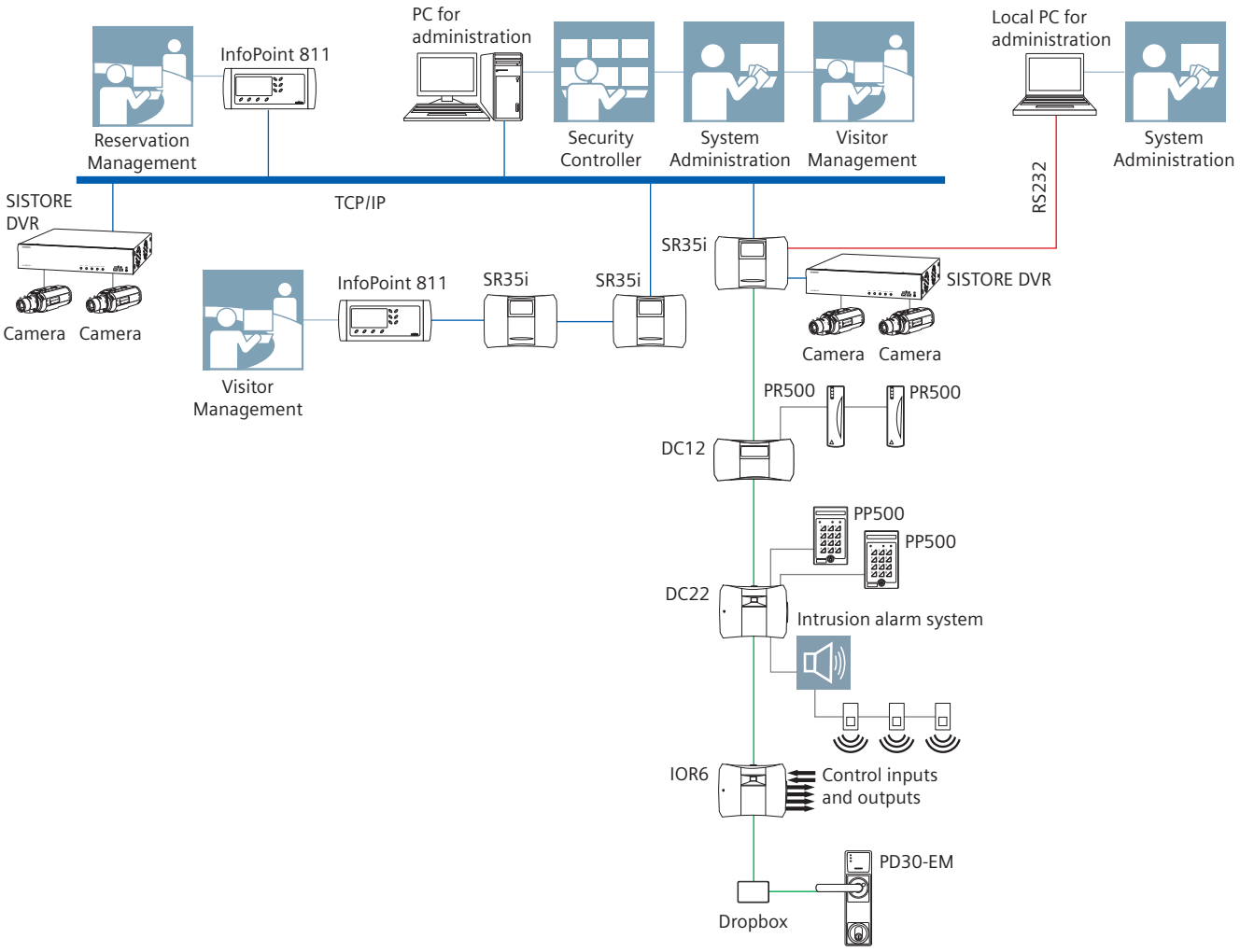
SiPass Entro provides a unique and very smart video recording capability when used in combination with SISTORE digital video recorders from Siemens. Up to 16 SISTORE DVRs and 128 cameras can be connected to SiPass Entro without the need for an additional PC or server. The SiPass Entro software is used to define the events that trigger recording, activate manual recording, and launch the “live view” function. Recorded events can be launched and viewed directly via the event log in the SiPass Entro software along with the status of all connected doors and cameras.

SiPass Entro supports Windows Terminal Server 2003/2008, which enables multi-site card management from a central location. This makes system maintenance very easy – a single software installation can be used to manage up to 10,000 branch sites. There is no need for system know-how at branch sites – an organization’s headquarters can provide all the know-how and support for the access control system.

Other noteworthy features in SiPass Entro are its integrated reservation function for rooms and facilities, the ability to create and print personalized cards and badges, its elevator and alarm control capabilities, and its open TCP/IP interface to other systems, such as accounting, and time and attendance.

SiPass Entro also provides a fast and easy upgrade path to SiPass integrated without any hardware redundancy, which makes SiPass Entro a very safe investment for the long term.

Diagrams



To find out which readers are compatible with SiPass Entro, please refer to the matrix on page 8-2.

Type		Order No.
SiPass Entro	**SiPass Entro software**	**SiPass Entro**

The SiPass Entro software is Windows-based and very easy to use. It can communicate with system hardware via direct connection (COM), local and global networks (LAN/WAN), TCP/IP or modem. The software supports various operating authorizations – for example, reception personnel may be authorized only to handle card activation while administrators are authorized to implement basic modifications of the system.

The software provides sophisticated event control and search functions with graphical icons for door monitoring in addition to common tasks like card administration. It also includes alarm bypass control with alarm status feedback (ASF), anti-passback, roll-call, interlock function, elevator control, photo ID, and many other useful features.

The template design tool in the SiPass Entro software makes it possible to design personalized ID cards and print them using standard Windows printer drivers.

It is also very easy to define alarm zones using the SiPass Entro software. At each reader or door assigned to an alarm zone, the alarm can be activated or deactivated. SiPass Entro's Alarm Status Feedback (ASF) function can indicate the status (armed/disarmed) of the zone at any reader in the zone (via the red reader LED). In applications that include SISTORE DVRs, the SiPass Entro software fully integrates the DVRs into the access control system, which makes event-triggered recording very easy.

An integrated Web-based reservation function is also included in the software. It is ideal for managing access to conference rooms, sport facilities, clubs, and so on. Reservation can be done via the Internet or via an InfoPoint reservation terminal. The software also includes an open TCP/IP interface (BAPSI) to third-party applications.

In cases where wireless components (i.e. RF30-EM and RF9) are used in a SiPass Entro system, the SiPass Entro software handles those components in a similar way as it handles wired ones.

The SiPass Entro software is available in the following languages: Czech, Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Polish, Portuguese, Spanish and Swedish.

System requirements	Processor 1 GHz 512 Mb RAM CD-ROM drive. VGA colour monitor 1024 x 768. Local Area Network connection (or serial port for connection of segment controller/modem). Windows 2000 SP4, XP SP2, Vista or Microsoft Terminal Server 2008/2003 functionality.
Basic network requirements	Twisted-pair Ethernet 10/100 Mbit. Static or dynamic (DHCP) IP-address for SR35i. Stable Internet connection of SR35i (when Internet is used).
Requirements for modem	9600 baud on DTE, Autoanswer disabled, Ignore DTR, Local echo disabled.
Recommendation for modem	Watchdog should be included. Will reset the modem if, for example, communication stops.

Core Software

Type		Order No.
Entro SW SE	**SiPass Entro software – Standard edition** See SiPass Entro for technical overview and note the additional / other specifications: This CD-ROM contains the Standard edition of the SiPass Entro software, one user license and both the installer and end-user documentation. It is for usage in Windows 2000, Windows XP and Windows Vista environments.	**S24246-P8601-A1**
Entro SW SEUL	**Additional license for SiPass Entro software – Standard edition** See SiPass Entro for technical overview and note the additional / other specifications: An additional license is required for every additional system administrator. Order this product when you require an additional license for the Standard edition of the SiPass Entro software.	**S24246-P8600-A1**
Entro SW TS	**SiPass Entro software – Terminal Server edition** See SiPass Entro for technical overview and note the additional / other specifications: This CD-ROM contains the Terminal Server edition of the SiPass Entro software, one installation key, one user licence and both the installer and end-user documentation. It is for usage in Windows Terminal Server 2008/2003 environments. This edition of the software is required for centralized multi-site administration.	**S54511-P3-A1**
Entro SW TSUL	**Additional licence for SiPass Entro software – Terminal Server edition** See SiPass Entro for technical overview and note the additional / other specifications: An additional licence is required for every additional system administrator. Order this product when you require an additional license for the Terminal Server edition of the SiPass Entro software.	**P54511-P4-A1**
TG- USB.. 	**Enrolment reader kit** This reader kit consists of one of the PR500 proximity readers, a desk stand and a USB-RIF/2 interface. For further technical information about PR500 readers, see “Readers“ section. For further technical information about the USB-RIF/2 interface, see “Accessories“ section.	**TG- USB..**
TG-EM USB	**Enrolment reader kit for EM cards and tags**	**S24246-F8656-A1**
TG-Cotag USB	**Enrolment reader kit for Cotag cards and tags**	**S24246-F8657-A1**

Type		Order No.
SR34i..	**Segment controller**	**SR34i..**

The segment controller is the heart of the SiPass Entro system. It processes all the information in the system and stores the complete database. As a result, the system is robust, easy to maintain and able to operate without a connected PC or server, even when SISTORE DVRs are connected to it. The integrated Web server and flash memory port provide the basis for additional online functions that can be customized for specific customer requirements. The integrated dual port switch makes network installation a simple matter.

SiPass Entro segment controller units can communicate using a wide variety of methods, such as standard RS485, TCP/IP networks or WLAN. These communication channels can also be combined as required. Regardless of the physical network used, 128-bit encryption is always applied.

Communication between point of administration (e.g. PC-client) and segment controller can be established over RS232, modem, TCP/IP networks or WLAN.

The SR34i comes in four different sizes (door capacities): 4, 8, 16 and 32. This makes it very easy to tailor the system to fit the site. A maximum of 16 segment controllers can be used in a single SiPass Entro system.

Interface	Built-in 2-port switches with two RJ45 10/100 Mbit connections for Ethernet. RS232 to PC, printer or modem with a maximum distance of 25 metres. RS485 Global to other SR34i controllers. RS485 Local to door controllers. Expansion slot for memory card CF8 (compact flash).
Operating voltage	8-40 VDC 8-30 VAC
Current consumption	Power save 12V: 1.62 W Full on 12V: 2.89 W Power save 24V: 1.68 W Full on 24 V: 2.76 W
Door capacity	4-32
Operating temperature	0 to +50 °C
Environment	Indoor use only
Housing	Plastic housing for wall mounting
Colour	White
Dimensions (W x H x D)	248 x 182 x 66 mm
Weight	0.98 kg

SR34i/4	**Segment controller for 4 doors**	**S24246-C8451-A1**
SR34i/8	**Segment controller for 8 doors**	**S24246-C8452-A1**
SR34i/16	**Segment controller for 16 doors**	**S24246-C8453-A1**

Type		Order No.
SR34i/32	**Segment controller for 32 doors**	**S24246-C8454-A1**
SR35i..	**Segment controller with wireless capability**	**SR35i..**

The segment controller is the heart of the SiPass Entro system. It processes all the information in the system and stores the complete database. As a result, the system is robust, easy to maintain and able to operate without a connected PC or server, even when SISTORE DVRs are connected to it. The integrated Web server and flash memory port provide the basis for additional online functions that can be customized for specific customer requirements. The integrated dual port switch makes network installation a simple matter.

SiPass Entro segment controller units can communicate using a wide variety of methods, such as standard RS485, TCP/IP networks or WLAN. These communication channels can also be combined as required. Regardless of the physical network used, 128-bit encryption is always applied.

Communication between point of administration (e.g. PC-client) and segment controller can be established over RS232, modem, TCP/IP networks or WLAN.

The SR35i comes in four different sizes (door capacities), which makes it very easy to tailor the system to fit the site. A maximum of 16 segment controllers can be used in a single SiPass Entro system.

The SR35i includes built-in RF technology to support online wireless components (currently the RF30-EM Codoor and the RF9 router).

The sizes (door capacities) are 4+4, 8+8, 16+16 and 32+32, meaning that each segment controller can manage the same number of wired doors as wireless doors (e.g. four wired doors and four wireless doors).

Interface	Built-in 2-port switches with two RJ45, 10/100 Mbit connections for Ethernet. RS232 to PC, printer or modem with a maximum distance of 25 meters. RS485 Global to other SR35i controllers. RS485 Local to door controllers. Wireless to RF30-EM & RF9 router. Expansion slot for CF8 (compact flash).
Operating voltage	8-40 VDC 8-30 VAC
Current consumption	Power save 12V: 2.26 W Full on 12V: 3.13 W Power save 24V: 2.25 W Full on 24V: 3.12 W
Door capacity	4-32 wired plus 4-32 wireless
Operating temperature	0 to +50 °C
Environment	Indoor use only
Housing	Plastic housing for wall mounting
Colour	White
Dimensions (W x H x D)	248 x 182 x 66 mm
Weight	0.98 kg

Type		Order No.
SR35i/4+4	Segment controller for 4 wired + 4 wireless doors	S54507-C1-A1
SR35i/8+8	Segment controller for 8 wired + 8 wireless doors	S54507-C1-A2
SR35i/16+16	Segment controller for 16 wired + 16 wireless doors	S54507-C1-A3
SR35i/32+32	Segment controller for 32 wired + 32 wireless doors	S54507-C1-A4

Type		Order No.
DC01	**Door controller for use without reader**  The DC01 is designed to monitor and control one door in a SiPass Entro system. When it is connected to a door it continuously reports the status of that door (open or closed) to the system, which increases the level of security in the building. The DC01 cannot be connected to a reader. However, it can be used to unlock the door and thereby grant access to the public, for example, during certain times of the day or week, based on timer settings in the SiPass Entro system.	**S24246-C8500-A1**

Interface	To segment controller: RS485 system com bus
Operating voltage	8 to 40 VDC or 8 to 30 VAC
Power consumption	Power save 12V DC: 0.24 W Full on 12V DC: 0.72 W Power save 24V DC: 0.48 W Full on 24V DC: 1.44 W
Inputs	Exit button request with delay. Door contact for indicating closed/open door. Tamper switch for internal control.
Outputs	Voltage-free relay contact, max. 2 A, 30 V
Tamper switch	Yes
Operating temperature	-35 to +50 °C
Environment	Indoor use only
Housing	Plastic box
Colour	White
Dimensions (W x H x D)	120 x 80 x 40 mm
Weight	0.16 kg
Approval	CE

Type		Order No.
DC12	**Door controller for use with reader(s)**	**S24246-C8502-A1**

The DC12 is designed to monitor and control one door in a SiPass Entro or SiPass integrated system. When BC-Link is used, a single DC12 can support two readers and thereby control both entries and exits to a restricted area (anti-passback).

The DC12 includes an integrated status display window to simplify installation and service. It is compatible both with SiPass readers and with most third-party readers that support Wiegand and Clock&Data standards.

Interface	To reader: BC-Link, Clock&Data (track 2) or Wiegand (26 bit, 32 bit, 8 bit burst) To controller: RS485 system com bus
Operating voltage	8 to 40 VDC, 8 to 30 VAC
Power consumption	Without reader Power save 12V DC: 0.59 W Full on 12V DC: 0.76 W Power save 24V DC: 0.63 W Full on 24V DC: 0.79 W
Inputs	Exit button request with delay. Door contact for indicating closed/open door
Outputs	Voltage-free relay contact, max. 2 A, 30 V.
Tamper switch	Integrated
Operating temperature	-35 to +50 °C
Environment	Indoor use only
Housing	Wall-mounted composite housing
Colour	White
Dimensions (W x H x D)	250 x 128 x 54 mm
Weight	0.5 kg
Approval	CE

Type		Order No.
DC22	**Door controller with alarm control functions**	**S24246-C8503-A1**

The DC22 is designed to monitor and control one door in a SiPass Entro or SiPass integrated system. When BC-Link is used, a single DC22 can support two readers and thereby control both entries and exits to a restricted area (anti-passback).

The DC22 includes an integrated status display window to simplify installation and service. It is compatible both with SiPass readers and with most third-party readers that support Wiegand and Clock&Data standards.

The major difference between the DC12 and the DC22 is that the DC22 has additional inputs/outputs that support advanced alarm control functions, e.g. alarm status feedback (ASF). These are essential when integration with an intrusion detection system is required. The DC22 also has two outputs for electric locks (day/night lock) as well as separate inputs for open/closed and unlocked/locked door.

Note: The intrusion and ASF functions of the DC22 are only available in SiPass Entro.

Interface	To reader: BC-Link, Clock&Data (track 2) or Wiegand (26 bit, 32 bit, 8 bit burst). To controller: RS485 system com bus.
Operating voltage	8 to 40 VDC, 8 to 30 VAC
Power consumption	Without reader Power save 12V DC: 0.65 W Full on 12V DC: 1.38 W Power save 24V DC: 0.68 W Full on 24V DC: 1.41 W
Inputs	Exit button request with delay. Door contact for indicating closed/open door. Lock status sensor for indicating locked/unlocked door. Alarm bypass activating from a button or a timer. Alarm Status Feedback (ASF). Indication of alarm status (red LED).
Outputs	Voltage-free change over contact (lock relay), max. 2 A, 30V. Voltage-free closing contact (motorlock relay), max. 2 A, 30V. Voltage-free change over contact (alarm bypass relay), max. 2 A, 30V. Voltage-free closing contact (door held warning relay), max. 2 A, 30V. Voltage-free closing contact (pre-warning relay), max. 2 A, 30V. Voltage-free closing contact (alert relay), max. 2 A, 30V.
Tamper switch	Integrated
Operating temperature	-35 to +50 °C
Environment	Indoor use only
Housing	Wall-mounted composite housing
Colour	White
Dimensions (W x H x D)	248 x 182 x 55 mm
Weight	0.7 kg
Approval	CE

Type	Order No.
PD30-EM	**S24246-F8504-A1**

Prox Codoor – Scandinavian lock case standard

PD30-EM is a system Codoor unit that uses EM4102 proximity technology. It contains a reader, controller, lock mechanism and power supply, all in a single housing. Since the PD30-EM is mounted directly onto a standard lock case, you do not have to make any cuts in the door other than those required for the cables for power and communication.

PD30-EM is suitable for lock cases with a distance of between 105 mm and 116 mm between the center of the door handle and the center of the lock cylinder. It is designed for use with Scandinavian lock cases.

Supplied with	Dropbox and a five metre cable
Operating voltage	8 to 40 VDC 8 to 30 VAC
Power consumption	Power save 12V DC: 0.24 W Full on 12V DC: 0.71 W Power save 24V DC: 0.34 W Full on 24V DC: 0.75 W
Card technology	EM4102 (also known as Miro or UNIQUE 125 KHz)
Card read distance	Up to 3 cm with passive card
Indicators	3 x LED (red/yellow/green)
Keypad	No
Operating temperature	0 to +50 °C
Environment	Indoor use only
IP rating	IP30
Housing	Stainless steel housing with ABS base reader head
Colour	Stainless steel
Dimensions (W x H x D)	64 x 245 x 47 mm
Weight	0.85 kg
Approval	CE

Type		Order No.
PD40-EM	**Prox Codoor - European lock case standard**	**S24246-F8505-A1**

PD40-EM is a system Codoor unit that uses EM4102 proximity technology. It contains a reader, controller, lock mechanism and power supply, all in a single housing. Since the PD40-EM is mounted directly onto a standard European lock case, you do not have to make any cuts in the door other than those required for the cables for power and communication.

PD40-EM is suitable for lock cases with a distance of 72 mm between the center of the door handle and the center of the lock cylinder. It is designed for the European standard lock case, following the DIN 18251 standard.

Supplied with	Dropbox and a five metre cable
Operating voltage	8 to 40 VDC 8 to 30 VAC
Power consumption	Power save 12V DC: 0.24 W Full on 12V DC: 0.71 W Power save 24V DC: 0.34 W Full on 24V DC: 0.75 W
Card technology	EM4102 (also known as Miro or UNIQUE 125 KHz)
Card read distance	Up to 3 cm with passive card
Indicators	3 x LED (red/yellow/green)
Keypad	No
Operating temperature	0 to +50 °C
Environment	Indoor use only
IP rating	IP30
Housing	Stainless steel housing with ABS base reader head
Colour	Stainless steel
Dimensions (W x H x D)	70 x 255 x 54 mm
Weight	0.9 kg
Approval	CE

Type		Order No.
RF30-EM	**Wireless Codoor – Scandinavian lock case standard**	**S54501-F2-A1**

RF30-EM is a Codoor unit that can be used either as a standalone product or as a wireless component in a SiPass Entro system. It contains a reader, keypad, controller, lock mechanism and power supply, all in a single housing. It is designed to be mounted directly on an interior door.

In standalone mode it is possible to store up to 250 cards and do administration using the built-in keypad.

In system mode the RF30-EM is fully online and functions in the same way that the wired doors in the SiPass Entro system do. The wireless functionality operates on a 2.4 GHz license-free frequency band using the Zigbee protocol. The maximum distance between an RF30-EM and the SR35i controller is 25 meters. For distances greater than 25 meters the RF9 router is required (see the SiPass Entro section for more information about RF9.)

It is easy to set up RF30-EM as part of a SiPass Entro system by using the installation mode, which indicates the signal strength and reliability of the wireless network.

RF30-EM is suitable for lock cases with a distance of between 105 and 116 mm between the center of the door handle and the center of the lock cylinder. It is designed for use with standard Scandinavian lock cases.

Operating voltage	Two 9V type 6LR61 batteries (not included)
Operational time	Approx. one year
Card technology	EM4102 (also known as Miro or Unique 125 kHz)
Card capacity	Online mode: Set by SiPass Entro Offline mode: 250 cards Standalone mode: 250 cards
Card read distance	Up to 3 cm
Frequency band	2.4 GHz
Indicators	3 x LED (red/yellow/green) 1 x buzzer
Operating temperature	0 to +50 °C
Environment	Indoor use only
IP rating	IP30
Colour	Stainless steel
Dimensions (W x H x D)	64 x 285 x 59 mm
Weight	0.76 kg
Approval	CE

Type		Order No.
RF9	**Wireless router** RF9 extends the radio link between the SR35i and the RF30-EM. It also acts as a tool for measuring radio coverage. It includes three LEDs to indicate signal strength and communication quality.	**S54505-B1-A1**

Battery	For test purposes 9 V. Type: 6LR61
Operating voltage	8 to 30 VAC 8 to 40 VDC
Current consumption	Average: 40 mA Peak: 110 mA (8 VDC)
Frequency band	2.4 GHz
Indicators	3 x LED (red/yellow/green)
Operating temperature	-10 to +55 °C
Environment	Indoor use only
IP rating	IP30
Colour	Off-white, RAL9002
Dimensions (Ø x H)	110 x 48 mm (with socket)
Weight	0.10 kg
Approval	CE

Type		Order No.
IOR6	**IO relay central**	**S24246-C8501-A1**

IOR6 is a general relay central designed for use with SiPass Entro and SiPass integrated. Its four inputs and six outputs can be used for applications such as common alarm outputs, fire alarm inputs, elevator control, machine control or door control (in reservation applications). IOR6 can also be used for timer functions.

Please note in a SiPass Entro system, a maximum of 32 IOR6 units can be used for elevator control (for up to 192 floors). For other purposes, as many as 512 IOR6 units can be used in a SiPass Entro system; note, however, that the combined number of doors and IOR6 units connected to a single SiPass Entro system cannot exceed 512.

Interface	To segment controller: RS485 system com bus.
Operating voltage	8-40 VDC 8-30 VAC
Power consumption	Power save 12V DC: 0.24 W Full on 12V DC: 1.57 W Power save 24V DC: 0.26 W Full on 24V DC: 2.57 W
Inputs	Four remote control inputs. Tamper switch for internal alarm.
Outputs	Two voltage-free change over relay contacts, max. 0.9 A, 60 V (2 A, 30 V). Four voltage-free closing relay contacts, max. 0.9 A, 60 V (2 A, 30 V). Six extra outputs which operate in parallel with above.
Tamper switch	Yes
Operating temperature	-35 to +50 °C
Environment	Indoor use only
Housing	Wall-mounted composite housing
Colour	White
Dimensions (W x H x D)	248 x 182 x 55 mm
Weight	0.7 kg
Approval	CE

Type		Order No.
IP811..	**InfoPoint**	**IP811..**

InfoPoint is used as a reservation terminal for SiPass Entro and has an integrated function to send and receive information from/to the segment controller (acting as a web server). The InfoPoint uses TCP/IP and works similarly to a web browser in a PC. InfoPoint is supplied with a wall mount kit and a power supply cable (with free end and an RJ45 type of connector). The terminal includes a colour screen and keys for navigating. InfoPoint also has a proximity reader to identify the person who wants to use the unit (either Cotag or EM reading technology).

Interface	Standard TCP/IP LAN connection, 10BaseT connector. Type RJ45.
Operating voltage	12 to 35 VAC/DC
Current consumption	350 mA
Screen	Colour TFT screen with the resolution 400 x 240 and 256 colours.
Operating temperature	+5 to +40 °C °C
Environment	Indoor use only
Housing	Robust housing in aluminium and composite and a strong polycarbonate film is covering the TFT-screen. Use the BB7 flush mounting unit when flush mounting the InfoPoint.
Dimensions (W x H x D)	350 x 154 x 52 mm

IP811-EM	**InfoPoint with integrated EM reader**	**S24246-C8553-A1**
IP811-Cotag	**InfoPoint with integrated Cotag reader**	**S24246-C8554-A1**
CF8	**Memory card**	**S24246-Z8651-A1**

CF8 is a memory card for the web-based reservation feature in SiPass Entro. It is an accessory to be mounted in one of the segment controllers. It is shipped configured for reservation functions in SiPass Entro.

Type		Order No.
AK2100-CO	**SiPass Entro Cotag Starter Kit for two doors**  The SiPass Entro Cotag Starter Kit includes everything you need to set up a two-door access control system. This kit can easily be complemented with one or more door kits to create a larger access control system. Siemens' Cotag technology is unique on the market in that it can provide both proximity and hands-free card reading in the same system. All Cotag readers can read both active (long-range) and passive (proximity) Cotag cards and tags, and both types of cards/tags can be mixed in the same system to provide ultimate convenience and cost-efficiency. The kit includes: • One four-door segment controller • SiPass Entro software – Standard edition • Two DC12 door controllers • Two PR500-Cotag proximity readers • Twenty Cotag cards	**S54507-S12-A1**
AK2110-CO	**SiPass Entro PR500-Cotag Door Kit**  SiPass Entro PR500-Cotag Door Kit includes: • One DC12 door controller • One PR500-Cotag proximity reader Note: Siemens' Cotag technology is unique on the market in that it can provide both proximity and hands-free card reading in the same system. All Cotag readers can read both active (long-range) and passive (proximity) Cotag cards and tags, and both types of cards/tags can be mixed in the same system to provide ultimate convenience and cost-efficiency.	**S54507-S4-A1**
AK2100-EM	**SiPass Entro EM Starter Kit for two doors**  The SiPass Entro EM Starter Kit includes everything you need to set up a two-door access control system. This kit can easily be complemented with one or more door kits to create a larger access control system. The starter kit includes: • One four-door segment controller • SiPass Entro software – Standard edition • Two DC12 door controllers • Two PR500-EM proximity readers • Twenty EM cards	**S54507-S2-A5**
AK2110-EM	**SiPass Entro PR500-EM Door Kit**  The PR500-EM Door Kit includes: • One DC12 door controller • One PR500-EM reader	**S54507-S2-A6**

Kits

Type		Order No.
AK2200	**SiPass Entro Controller Kit** The SiPass Entro Controller Kit includes: • One four-door segment controller • SiPass Entro software - Standard edition	**S54507-S8-A1**
		
AK2110-MX	**SiPass Entro AR6111-MX Mifare Door Kit** The AR6111-MX Mifare Door Kit includes: • One DC12 door controller • One AR6111-MX reader	**S54507-S3-A1**