



HOTEL SOLUTION™

## Combined chip and transponder card encoders

## HXW3.2

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**Combined chip and transponder card encoder/reader with LCD display**

- Encode access code on access card
- Read access code on access card
- Control the HOTEL SOLUTION database
- Text-based wizard on 2-line LCD display

### Use

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The HXW3.2 access card encoder is used together with the HOTEL SOLUTION software and HOTEL SOLUTION database to encode transponder or chip cards (hotel room key cards) in the reception area.

The HXW3.2 access card encoder is a table-top device that is controlled by the HOTEL SOLUTION software via TCP/IP (or via serial interface as an option). In addition, encoded access cards can be read and assigned to rooms or guests.

## Functions

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The HXW3.2 access card encoder reads and describes:

- Transponder cards with chip T5567 / T5577 by Atmel/Temic or
- ISO 7816 compatible chip cards with contactable security memory chip, type SLE5542/SLE4442.

### Note on chip cards

Only chip cards with Siemens security code are allowed. Other cards are not accepted, i.e. are deactivated after being misused 3 times.

### Read/write chip cards

Insert the chip card in the lit card slot for reading and writing.

### Read/write transponder cards

For reading and writing, place the transponder card on the area marked by a transponder symbol.

You can create access cards for a single guest room or access cards for a group of rooms for hotel staff. The LCD display wizard provides information and instructions on encoding.

## Type summary

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	HXW3.2	Combined chip and transponder card encoders
Note on chip cards	SLE5542	Chip card
	SLE4442	Chip card
Note on transponder cards	Order the transponder cards with chip T5567 by Atmel/Temic from the respective manufacturer.	
	Transponder cards are sensitive to mechanical damages. As a result, use a plastic protective cover.	

## Ordering

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Type	Stock number	Designation
HXW3.2	S55373-C108	Combined chip and transponder card encoders

## Equipment combinations

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### Prerequisite

The device must be connected to a TCP/IP interface (or to a serial interface as an option) of the PC containing the HSC software.

### New or old?

New or old devices can be connected to an HS system. To this end, the following registry entries are required.



**Important:** From BL12, Version 5.0.3.8, you **no longer** need to manually enter data in the registry. The software automatically writes to the registry.

What device combinations require which type of registry entry?

1. <b>Old</b> chip card encoder and <b>new</b> combi encoder.	HCW3.2+HXW3.2.reg
2. <b>Old</b> black transponder card encoder and <b>old</b> chip card encoder (this combination in all likelihood will <i>not</i> occur!)	HTW3.1B+HCW3.2.reg
3. <b>Old</b> black transponder card encoder and <b>new</b> combi encoder.	HTW3.1B+HXW3.2.reg

## Mechanical design

### Scope of delivery

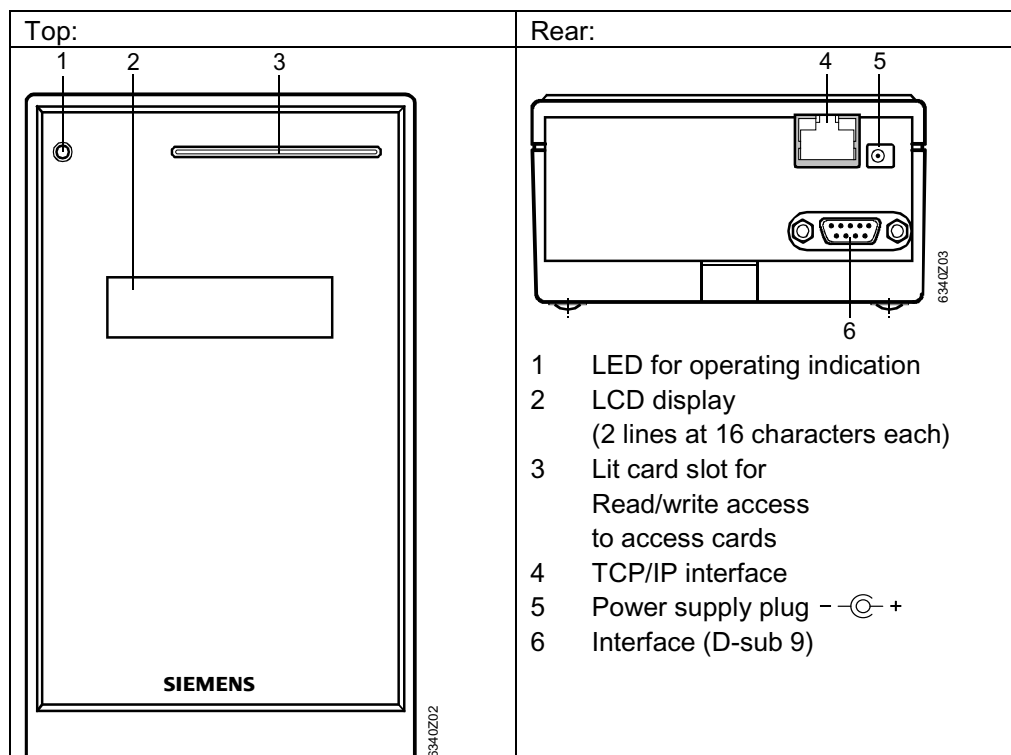
The HXW3.2 access card encoder is comprised of:

- Plastic housing, table-top model
- Supply unit (see "Technical data")

### Supply unit



### Plastic housing, table-top model



## Engineering notes

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The HXW3.2 access card encoder is a key element of the HOTEL SOLUTION system. The number of HXW3.2 access card encoders must be in proper relation to the hotel's size and thus be planned in sufficient numbers. The absolute minimum number is 2 HXW3.2 access card encoders to ensure continued encoding capability in case of HXW3.2 card encoder failure.

The card encoder should be located close to the Front Office System (FOS) or the HOTEL SOLUTION operating workspace.

A null modem connection must be set up for HXW3.2 access card encoders located at a distance to the PC containing the HOTEL SOLUTION database.

## Mounting notes

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- Use the devices only in closed, dry rooms
- Place horizontally on a flat surface
- Only trained staff may commission the device
- Do not open the device
- Observe all local safety and installation guidelines

## Technical data

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HXW3.2		
Operating voltage	Safety extra-low voltage SELV	DC 12 V $\pm$ 15%
	Power consumption	200 mA
Supply connection	Plug on device rear	Ext. dia. 5.5 mm , pin dia. 2 mm
Interface	Plugs on device rear	TCP/IP, RJ45, 8-pin RS232, D-sub 9
Display	LCD	2 lines at 16 characters each
Transponder card encoder	Read/write chip	Atmel/Temic T5567 or T5557
Transponder cards	Working frequency	125 kHz
	Antenna	Rectangle, T5567
	Working frequency	125 kHz
	Reading distance	<6 cm
Chip cards	Type	Siemens SLE5542 or SLE4442
Environmental conditions	Operation	As per IEC 721-3-3: Class 3K5
	Temperature	0...+50 °C
	Humidity	< 85% r.h.
	Air pressure	Min. 700 hPa, corresponds to max. 3,000 meters above mean sea level
	Transport	As per IEC 721-3-2: Class 2K3
	Temperature	-25...+65 °C
	Humidity	< 95% r.h.
	Air pressure	Min. 260 hPa, corresponds to max. 10,000 meters above mean sea level
Standards		
Product safety	Automatic electrical controls for household and similar use	EN 60730

## Technical data (continued)

Electromagnetic compatibility	Emissions (residential)	EN 61000-6-3
Housing	Emissions (residential)	EN 61000-6-1
	As per EN 60529	IP 20
Protection class	As per EN 60730	III (without supply unit)
CE conformity	Satisfies the requirements of:	
	EMC guideline	89/336/EEC
	Low voltage directive	73/23/EEC
Environmental compatibility	The product environmental declaration CM2E6340en contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal)	ISO 14001 (Environment) ISO 9001 (Quality)
	UL/CUL conformity	UL/CUL 916
Dimensions	Operating position	Horizontal only
	See "Dimensions"	57.5 x 105 x 175 mm (H x W x D)
Color	Plastic parts	Gray
Weight without packaging	Access card encoder	330 g
	Supply unit	120 g
	Serial interface cable	140 g
Weight with packaging		700 g

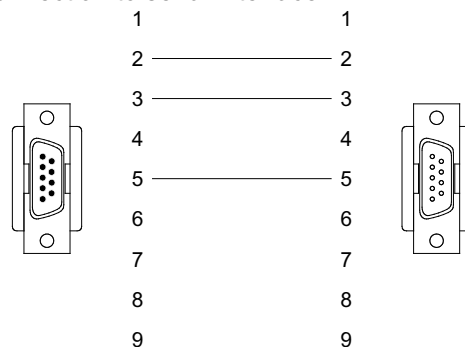
### Supply unit

Supply	Operating voltage	AC 100 ... 230 V
	Frequency	50/60 Hz
	Power consumption	150 mA
Output	Safety extra-low voltage SELV	DC 12 V
	Output current	450 mA
Cable length		1.75 m
Pin assignment		--⊖--+

## Connection diagrams

### Connection diagram

#### Connection to serial interface



Interface: Serial, RS232  
Plug/coupling: D-sub 9

2 BUS RS 232 RXD  
3 BUS RS 232 TXD  
5 GND

## Dimensions

Dimensions in mm

