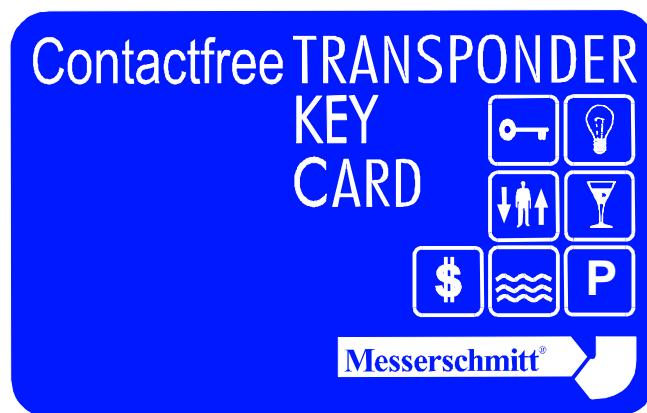


Hotel Key Card System  
CLASSIC Version

# Key Card Systems

by Messerschmitt®  
Made in Germany



## Contact Free Transponder Card

The very latest 13,56 MHz Technology (ISO)

---

# Magnet Card System

Proven Technology

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# Hotel Key Card System

## CLASSIC Version

# Messerschmitt

## Hotel Automation Systems



Messerschmitt Germany Head Office

## Experience, Know-how and Latest Technologies

Since about 20 years Messerschmitt is one of the leading manufacturer specialised in electronic Ident Card Systems, Access Control and Energy Control Systems.

**More than 1,000 Companies and Hotels are working with Messerschmitt Systems world-wide.**

One of the innovative development of Messerschmitt Systems is the “Contact Free Chip Card System” with RF (Radio Frequency) technology, which provides a maximum of security and comfort. Additionally, Messerschmitt presents its patented Automatic Minibar and integrable Energy Control Systems.

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# 1 Messerschmitt

## The Hotel Automation Company

Messerschmitt Systems is the only company to deliver both off-line and fully integrated online Key Card Systems with Energy Save Automation. As manufacturer and designer of both hard- and software, Messerschmitt Systems has extensive experience in producing state of the art, latest technology to meet the demands of the modern hotel industry.

Distribution, customised delivery and installation are managed directly from our own factory, a guarantee for fair and attractive prices.

Local installation and service are managed exclusively by Authorised Messerschmitt Business Partners world-wide.



One of the innovative developments of Messerschmitt Systems is the "Contact Free Chip Card System", based on RF (Radio Frequency) technology on a 13.56 MHz basis.

This system provides a maximum of both security and comfort and can further be used as a Customer Loyalty Card or an Inhouse Credit/Debit Card. The system is also compatible to the existing patented Automatic Minibar and the integrated Energy Control System.

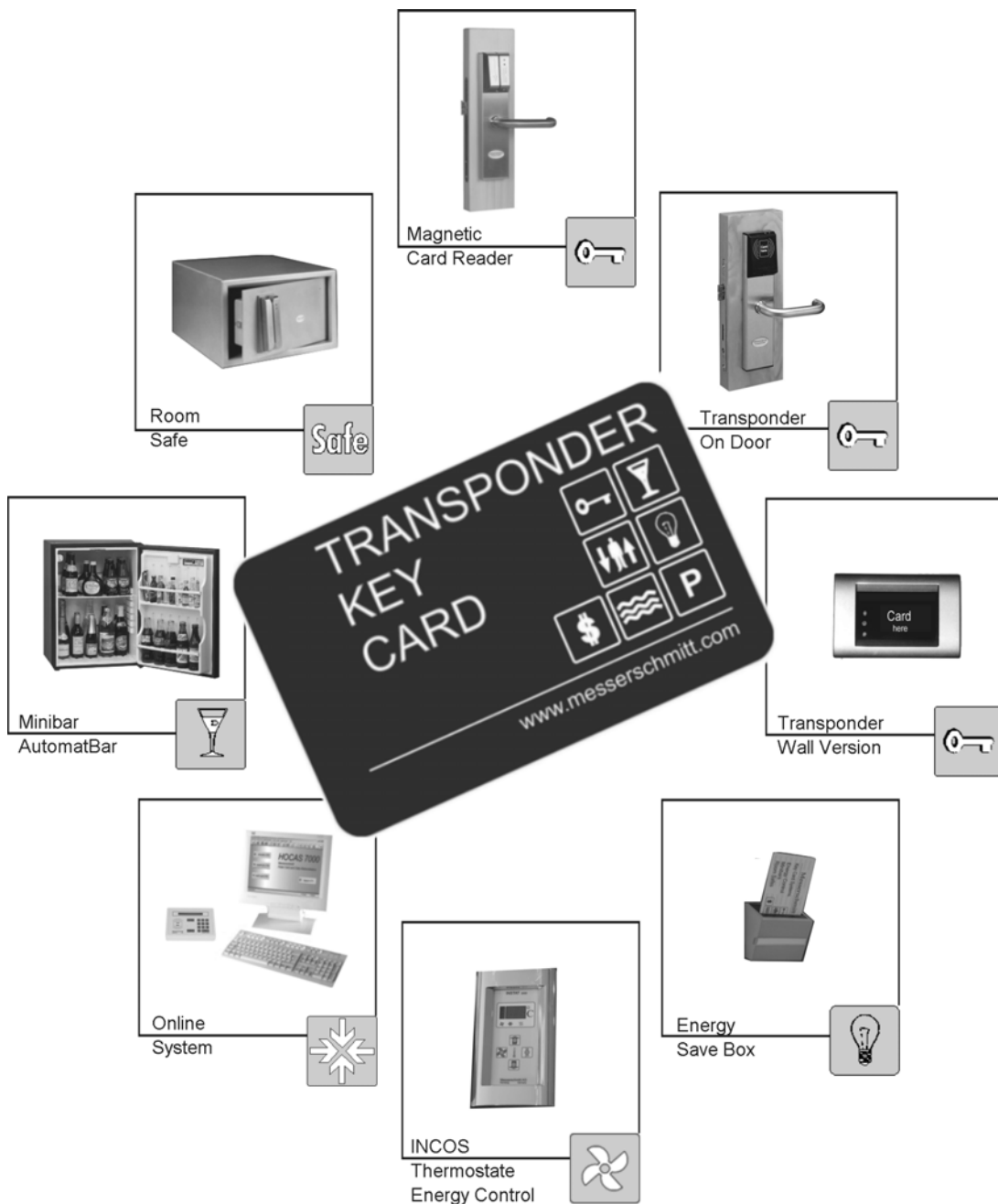
The Transponder Card combines the most easy handling and highest security available for your guests, staff and management.

**Radio Frequency Technology is rapidly advancing as the standard choice for modern security systems today**

As a premiere, this brand-new 13.56 MHz technology has been established a world-wide ISO standardisation. The IATA (Airline Association) is promoting its world-wide use as are UPS, DHL and the US Mail. This represents a world-wide break-through using this relatively new technology.

# Messerschmitt Products

## Hotel Automation Systems



## 1.1 Messerschmitt Product Range "Multifunctional Systems" with only "1Card"

Hence every single Messerschmitt module provides full compatibility,  
any on-line structure can be created to fulfil the customer's needs.



### Contactfree Transponder Card System



### Magnetic Card System



### Minibars

- Option:
- Opening control/display
  - User access control with electronic lock

### Automatic Minibars

- Automated Billing

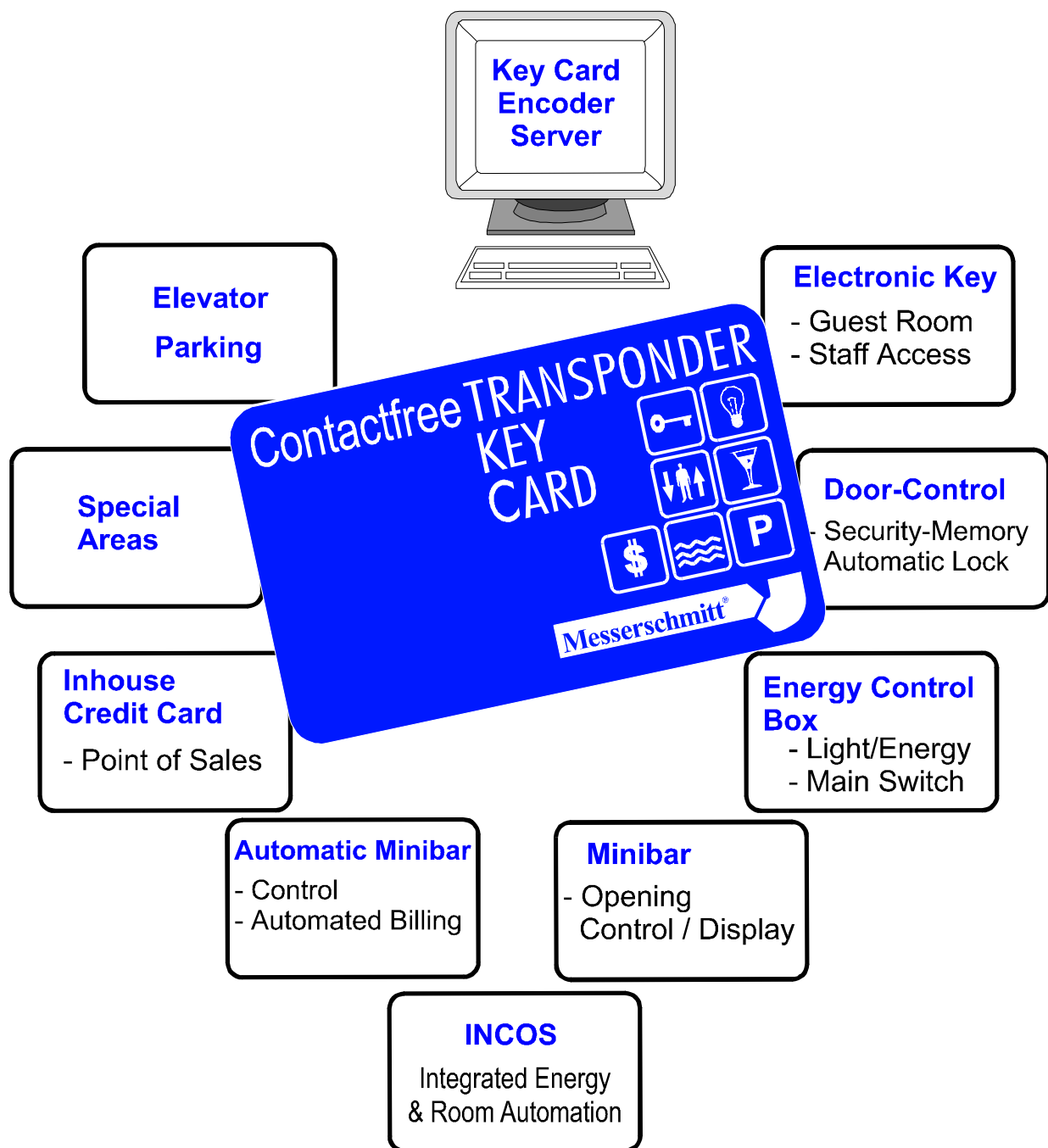


### Electronic Safes

- Usage Options:
- PIN Code access
  - Key Card or Credit Card access
  - Transponder Card access

## 1.2 Automation Benefits

### Fully Integrated Hotel Card System & Energy Control System

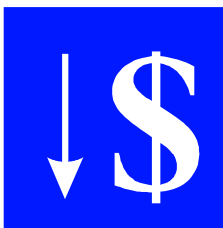


## 1.3 Advantages at a Glance

The Classic System is an autonomous off-line system using either traditional magnetic-strip cards or the latest contact free Transponder cards. The Classic System is usually installed as an on-door system.

The Classic System offers ease of use for both Guests and Hotel Staff with instant individual creation of Key Cards at Check-In.

The Classic System means the following advantages:



### Up to 20 % reduced Investment Cost



by using Messerschmitt Modules



### Easy and Quick Upgrade from conventional Systems



Customised System Packages



Installation Guides for Upgrading



### Highest Security Standards

Lost or not returned Key Cards are automatically cancelled at departure date or creation of a new Key Card.

High Security against manipulation by security pre-coding with system ID and checksum control



### Security Memory for Lock Interrogation Hand Held Terminal read-out

Each Reader is fitted with a standard memory which enables interrogation of the last 400 entries such as:



Which Guest / Which Staff Card



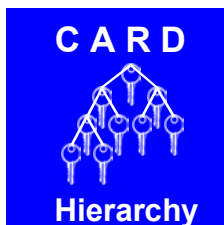
Date, time, and door

## 1.3 Advantages at a Glance



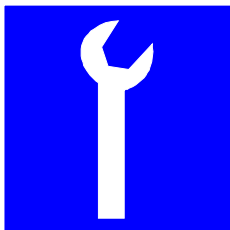
### Interface to PMS Computer Systems

Supported Systems: Fidelio, HIS, Hogatex, Protel, INTRAC.



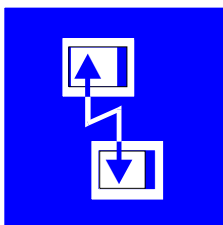
### Special Areas, Access Control

Up to 40 additional Special Areas e.g. Storerooms, night entrance, parking area, elevators, staff access, etc. These configurable areas are in addition to the standard 11 available hierarchies for key cards.



### Quick and simple installation

Reader integrated batteries for approx. 10.000 entries or approx. 2 years  
No power cables necessary



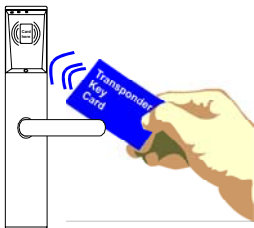
### Support via Modem Hot-line

Central Hot-line support and maintenance with Remote Support Modem Software, transfer of new software releases and software updates

## 2 Overview Classic System

### 2.1 Optional Card – Technologies

Two different Key Card technologies are available:

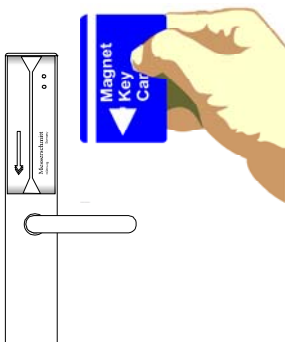


#### Contact Free Transponder Technology

Combines the very latest in access control technology – with extreme ease of use.

Messerschmitt Systems offers unique upgrade opportunities whereby the installed technology can be upgraded with minimal installation efforts. For example, Magnetic stripe technology can be easily upgraded to the new transponder technology.

This is possible because of the modular construction of the Messerschmitt components.



#### Magnetic Stripe Technology

World-wide acceptance and installations, proven technology.

## 2.2 Contactfree Transponder Card System

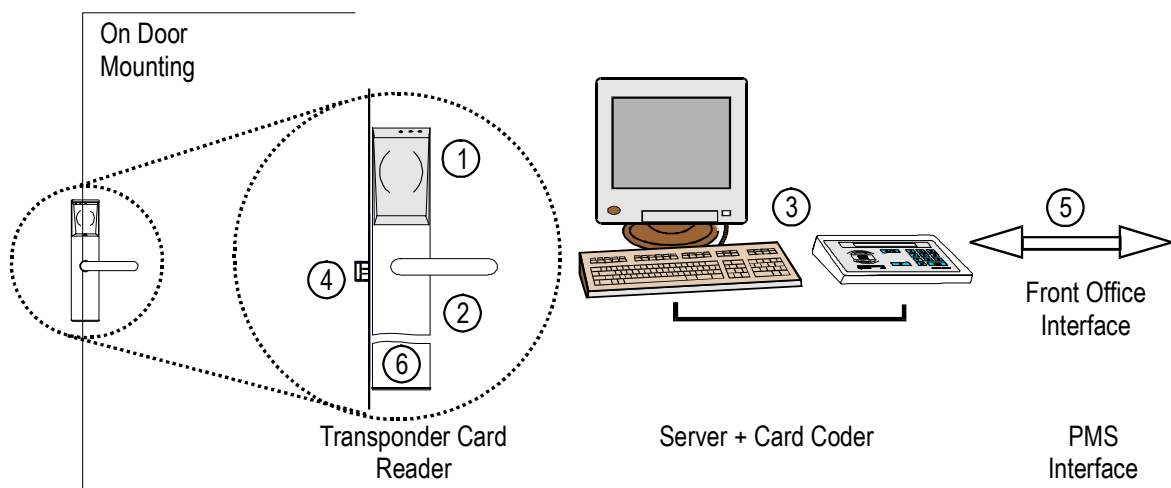
### Standard System Components On-Door:

- 1 On-Door Transponder Card Reader\*
- 2 High security escutcheons with handles stainless steel  
Available Finishes : Brushed Stainless Steel  
Polished or Satin Brass  
Polished Stainless Steel (like Chrome)
- 3 Server & Card Encoder for Key Card Coding

### Options:

- 4 Hotel High Security (Automatic) Lock
- 5 Interface to Hotel PMS (Front Office System)
- 6 **brand-new** DIN/EN compliant fire-rated escutcheons and DIN/EN lock-case

\* Readers are also available for “wall-mounting” (flush or surface mounted), cf. Page 16.



## 2.3 Magnetic Card System

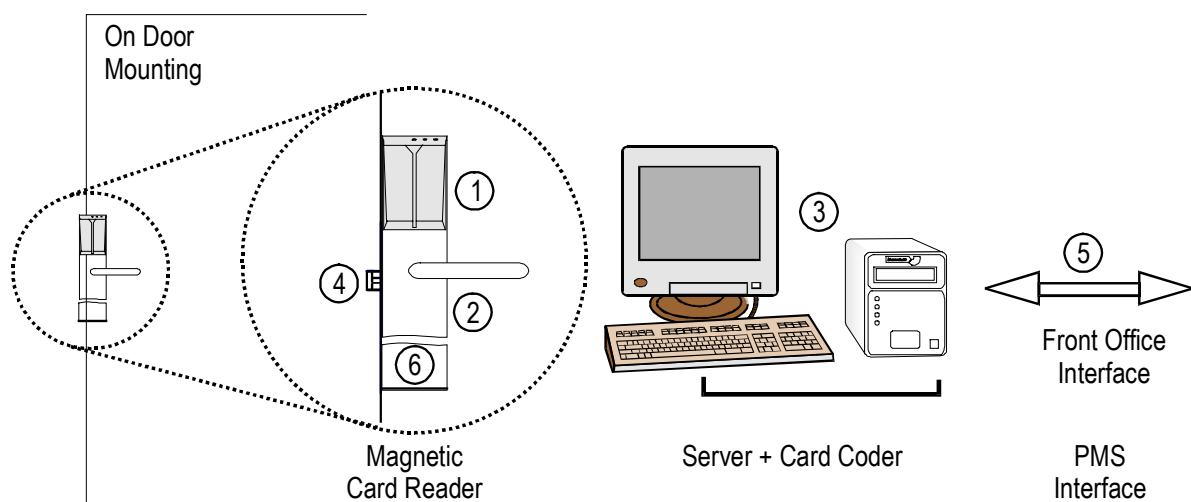
### Standard System Components On-Door:

- 1 On-Door Magnetic Card Reader\*
- 2 High security escutcheons with handles stainless steel  
Available Finishes :   Brushed Stainless Steel  
                                  Polished or Satin Brass  
                                  Polished Stainless Steel (like Chrome)
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### Options:

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\* Readers are also available for "wall-mounting" (flush or surface mounted), cf. Page 16



**2.4**

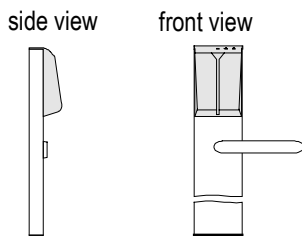
**Models**

**Reader Installation-Variations**

The off-line readers can be installed both as "On-door Models" (battery operated), or as "On-Wall Models" with centralised mains power supply per floor.

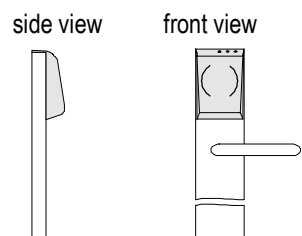
**Installation On Door**

**Magnetic Card Reader**



280x65x45

**Transponder Card Reader**

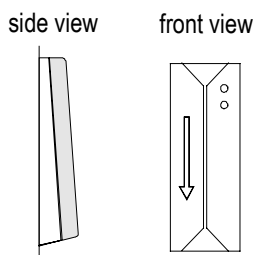


280x65x37 (HxWxD in mm)

The off-line reader system is supplied with battery packages. For on-line operation the readers are supplied with power supply and are connected to a ringbus. The wiring for the ringbus is installed with a cable bridge through the door.

**Installation On Wall**

**Magnetic Reader**

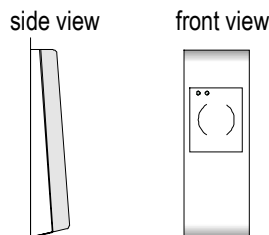


150x53x40

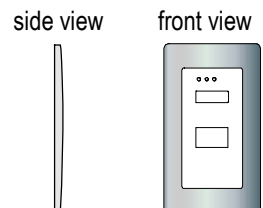
**Transponder Reader**

surface mounted on wall

flush mounted



150x53x40



140x80x10

## 2.5 What means "Off-line" and what means "On-line"

**The CLASSIC system works off-line.**

Each reader is working autonomously without any connection to a central unit. Nearly 90% of all installed systems work off-line.

**The EXECUTIVE system works on-line.**

Each reader is connected via a bus network to the central system PC at the reception. The on-line functionality guarantees high security, automation, automatic energy control, Credit Card Functionality of the Transponder Card for the automation of payments.

# Hotel Key Card System

CLASSIC Version

## 2.6 On-Wall Installation

Optionally, readers can be mounted on-wall.  
This allows free selection of custom escutcheons and locks or (in case of refurbishment) keeping the existing escutcheons.  
Two installation versions of on-wall readers are available:

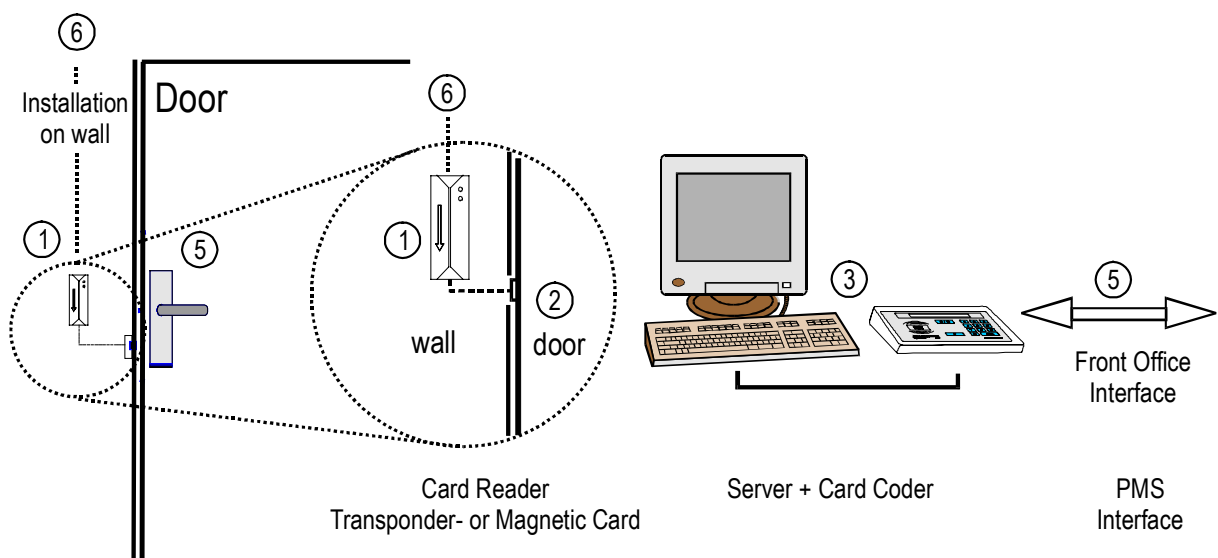
- a.) **Flush mounted** installation for Transponder Card readers
- b.) **Surface mounted** installation for Magnetic Card readers

### System Components On-Wall:

- 1 Wall mounted Card Reader controls electronic door release (striker plate)
- 2 Electronic Door release (provided on site)
- 3 System Server & Card Encoder for Key Card Coding
- 4 Interface to Hotel PMS (Front Office System)

### Additional Optional Extras:

- 5 **brand-new** DIN/EN compliant fire-proof escutcheons
- 6 On-line connection to ring bus



## 2.7 Special Areas or Common Areas Access Control Reader

In Addition to the conventional Guest Room Reader models, the following Readers with specific software controlled functionality are available:

### 2.7.1 Special Area Reader or "Common Areas"

Used in general access areas for guests and staff  
e. g. for the following areas:

- ➔ **Elevator Access,  
Specific Floor Access**
- ➔ **Restricted free of charge access  
e.g. Fitness area**
- ➔ **Minibar User Access**

### 2.7.2 Access Control Reader

Staff Key Cards can be defined for specific time limited access.  
These Readers are individually configurable for room and time zones

- ➔ **Staff Office Access, Back Office Access**
- ➔ **Storerooms, Staff Entrances, etc.**
- ➔ **Main and Side Entrances**

## 2.8 Transponder Cash Card Reader

The Transponder card is the ideal medium for automatic payment systems. The card is charged or loaded upon pre-payment for use within the Hotel.

Alternatively, the card can also be used as an in-house Credit Card with online accounting directly to the guest account within the Front Office PMS System. In this instance the Key Card Reader is directly attached to the POS System.

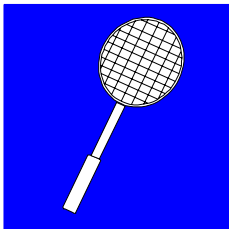
### Transponder Cash Card Reader Uses

The Transponder Card is an ideal automation method for chargeable guest services. The Card can be used for the following services:



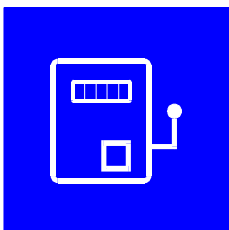
#### Wellness Centre

Sauna, Fitness area,  
Swimming Pool.



#### Sport Facilities

Tennis, Squash,  
Bowling, etc.



#### Gaming Machines

Billiards, Darts, etc.



#### Direct POS connectivity

Cashiers, as e.g. Micros, Schultes, Gastrofix.  
Vending machines, as e. g. Wurlitzer, Mars, Coca-Cola.

## 2.9 Key Card Coder Unit

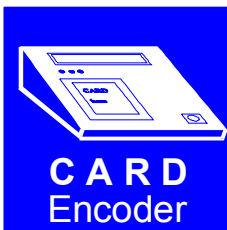
### Key Card issuing at Check-In

Key Card Encoder handling at Check-In is quick and easy with the Windows 98/NT/2000 based user interface. Up to 8 (16) coding stations can be operated simultaneously using the encoder network.

For security purpose, all encoder transactions are recorded in a log file. The encoder stations are equipped with displays providing operational guidance and can be used for card identification and verification.

### Key Card encoding Possibilities:

1. Direct encoding at the Messerschmitt System PC
2. Direct integration to the PMS Check-In Terminal



#### 1. Encoding with the Messerschmitt System Server

At Check-In, the room number and duration of stay are entered. All other data is automatically generated by the System PC. The Key Card is issued and ready for use in seconds.



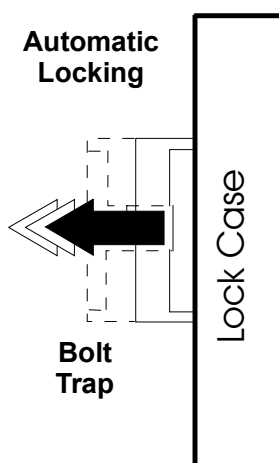
#### 2. Encoding via the PMS Check-In Terminal

This is the fastest and most elegant method of issuing Key Cards. All necessary data is generated from the Check-In terminal and automatically transferred to the coding station. This encoding method requires an interface between the Front Office PMS System (Host) and the Messerschmitt System PC.

A Messerschmitt standard interface program for most Front Office Systems is available.

## 3 Messerschmitt Hotel Security Locks

### 3.1 Exclusive Automatic Security Lock



Whenever the door is closed, upon entering or leaving a room, the latch is automatically extent by 20 mm locking the door. As such, the door is always locked. Through the integration of an auxiliary dead bolt, latch manipulation is impossible, providing maximum security.

The door can only be opened from the outside with a valid Key Card. In locked status, the door handle can be freely moved without engaging the lock, this prevents material strains. Access is only possible with a valid Key Card. Emergency Access due to mechanical failure is possible for hotel staff.

For Guest security, the door can be opened at any time from inside the room using the door handle. This **Anti-Panic Function** is a standard feature of the system

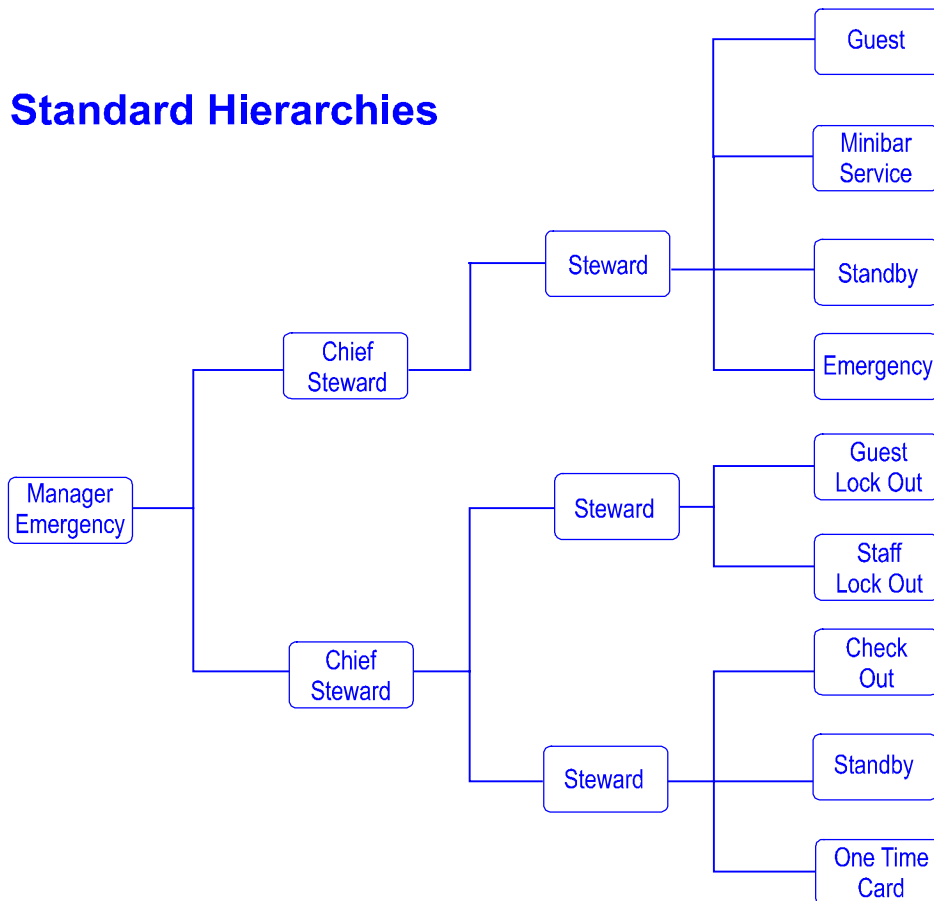
**The Automatic Security Lock guarantees unique mechanical security for both Guests and Hotel Management.**



#### **Electronic „Do Not Disturb“ or „Privacy“ functionality.**

The electronic „Do Not Disturb“ function is activated on the inside escutcheon. When activated, the door can only be opened with a Guest Card or the emergency card. All other cards, including steward and manager cards will have access denied.

# Card-Hierarchies and Card Types



## Additional up to 40 free configurable specific access areas

Sample configuration:



## 4. Card-Hierarchies and Card Types

The Messerschmitt Card Coder software is configurable for 11 hierarchical levels and an additional 40 special areas:

Guest Card	Coded for a specified date and time period for access to a specific room and / or pre-defined special areas (e.g. sauna, garage, night entrance, etc.)
Steward Card	Coded for a specified number of rooms (e.g. floor or wing.)
Chief Steward Card	Coded like a Steward Card, but with general access to multiple floors or wings
Manager Card	Access to all rooms and / or special areas
Emergency Card	Access authority identical to Manager Card with additional access to locked "Do Not Disturb" doors.
One-Time Card	One-Time-Access for a specific door for service purpose (e.g. technical maintenance, flower service, etc.)

## 4. Card Hierarchies / Card Types

### Standby Card

Emergency back-up for guest cards to be used in case of Coding Unit failure at reception. A Standby Card is prepared for each room at system set-up.

### Minibar Card

Card for minibar service staff only.

### Guest Lock-Out Card

This card is to preventing guest access to a specific room and contact the Hotel Reception.

### Check-Out Card

Service Staff Card for departure day usage  
Use of this card invalidates the current guest card.

### Staff Lock-Out Card

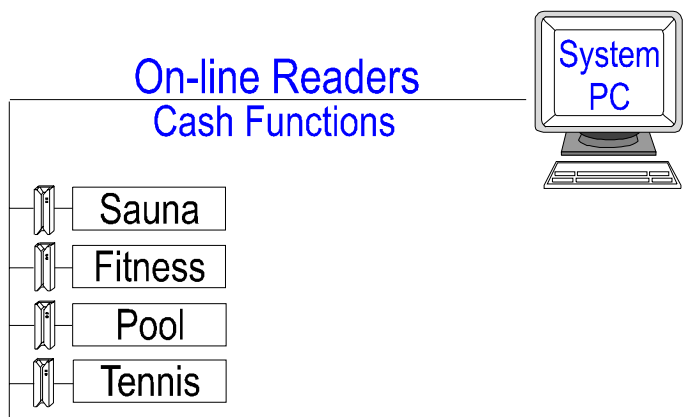
Access denial for all staff cards  
(e.g. seal a room after a crime.)

### "Special Area" Card

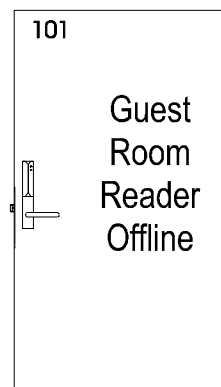
The configuration of up to 40 special areas enables the internal organisation of specific access areas such as: Offices, storerooms, sauna, fitness centre, garage, elevators, Executive Floors, etc.

# 5. Useful System Extensions

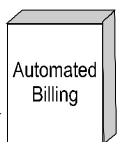
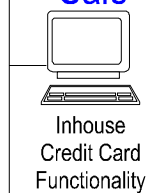
## Special Readers



## Room Reader



## Points of Sale



## Automatic Minibar

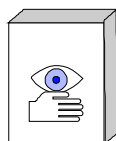


## Parking Motor Reader

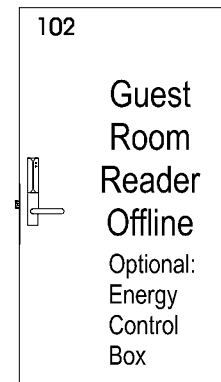
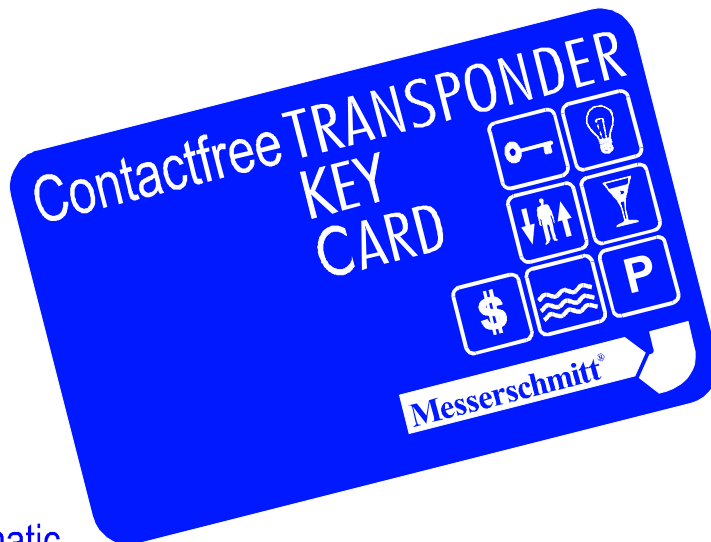
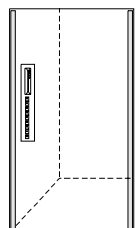


## Minibar

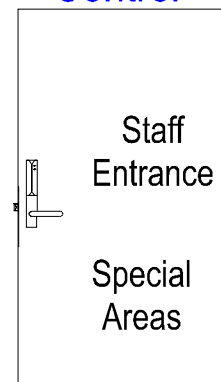
User control  
User indication



## Elevator Control



## Access Control



## 6. System Handling and Functions



### Guest card encoding at Check-In

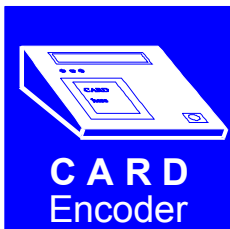
A new Key Card is issued for each guest, for the duration of their stay, at Check-In. The Key Card is automatically invalidated at the end of stay, avoiding potential security risks should the Guest forget to return the Key Card. Subsequent Guests receive new Key Cards valid for the duration of their stay.



### Continuous re-cycling of Key Cards

Used Cards are returned to the reception at check-out and can be coded again for another guest. This system reduces card cost and is environmental friendly.

The Key Cards, in international Credit Card format, are delivered in recyclable plastic and can be printed with Hotel or Sponsor logos.



### Automatic Card-Encoding at the Check-In Terminal interface

By using an interface between the Messerschmitt System PC and the Front Office PMS system, Key Cards can be encoded automatically at Check-In. If there is no interface installed, Key Cards are encoded directly at the Messerschmitt PC with short-term input of room number and departure date.

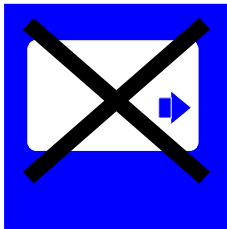


### Contact Free Transponder Key Card

These security Key Cards should also be returned to the reception at Check-out, just as mechanical keys are returned upon departure. These Key Cards are meant for constant re-coding and re-using.

Reception Staff should request the return of the Key Card at check-out. As a reminder to guests to return the Key Cards, Key-Rings can be attached or instructions printed on the card.

## 6. System Handling and Functions



### Automatic Cancellation of Key Cards

Each card is automatically invalidated either by expiry date or by the arrival of a new guest using a new card in the door reader.



### Each Card is absolutely unique – up to 4 billion variations

Each Hotel is configured with its own unique facility code. Each Transponder Card is created with its own unique code out of 4 billion variations.

For security reasons, cards are delivered in a pre-coded status. This method prevents manipulation and a repetition of card codes, and increases security considerably.



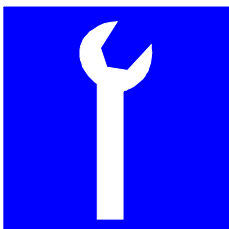
### Card Access Levels for Hotel Staff

The system is configured to allow customised definition or updating staff card access levels at the special area readers for internal access control.

All readers are, with the exception of the Room Readers, defined as Special Area Readers. These Readers are configured with extended functionality to enable or disable access to specific areas.

This extended functionality is configured on the System PC and is activated through initialisation of the Special Area Readers. After initialisation, all invalid cards will have access denied.

## 7. Installation, Remote Support via Modem



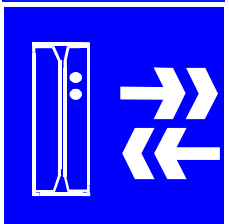
### System Installation

The installation of the off-line system is as simple as that of a traditional mechanical lock system (please refer to the installation manual).



### Messerschmitt Supervised System Installation and Training

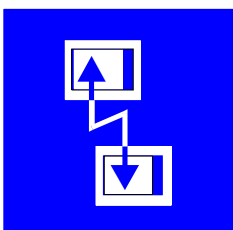
**System Installation can be handled by local sub-contractors or, respectively, by trained Hotel Technical Staff under supervision of a Messerschmitt System Engineer to save cost.**



### Card Reader Replacement Service Contract

Defective Card Readers can be replaced within minutes by hotel staff. Considerable cost savings for emergency technical service personnel can be achieved with the Messerschmitt Reader Replacement Service Contract. Defective readers are returned directly to the factory or local Business Partners for repair at either fixed rates or as part of an all inclusive Service Contract. One of the additional advantages in signing a Contract is that a permanent supply of Replacement Readers is kept directly at the Hotel premises for immediate use if necessary.

## 7.1 Remote Support and Maintenance via Modem



This is the most cost effective method of support which includes diagnostic software and updates for trouble shooting. Remote support contracts include all necessary hard- and software free of charge.

## 7.2 Installation Specifications

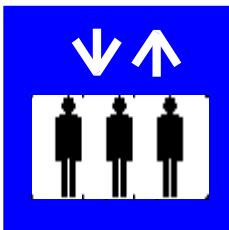


### Installation of On-Door or Off-Door Readers

The Reader is usually mounted directly on the door which is the quickest and most efficient method of installation. Installation Specifications, instructions and templates for drilling are provided to assist installation staff.

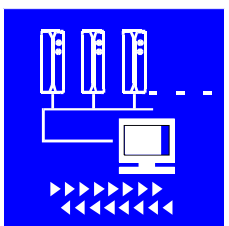
Escutcheons must be mounted according to Messerschmitt Specifications by either local contractors or trained Hotel Technicians.

Full Installation of escutcheons and card reader requires between 30 and 90 minutes depending on specification and condition of the door.



### Special Area Readers

Frequently used Special Area Readers, e.g. Sauna, Staff Entrance, etc., are usually wall mounted adjacent to the door. They usually have external power supply with an UPS.



### On-line Readers

These conditions also apply to cash-readers which are connected on-line to the System PC or with the POS system for in-house credit card functionality.

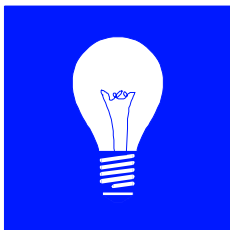
Wall mounted Readers provide a potential free contact for connection to an electric door release/striker plate.

### Electric Door Release

Door suppliers or sub-contractors can configure the release contact individually. Messerschmitt can supply specific electric striker plates with specific power and security functionality.

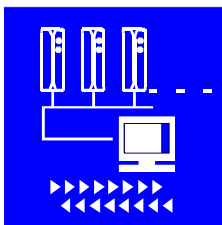
## 8. INCOS – Energy Control & Room Automation Functionality

The energy consumption of guest rooms can be monitored automatically and according to occupancy with the Energy Control Box. Current room occupancy is monitored by engaging the Key Card in the Energy Control Box. Energy consumption of the following outlets is monitored:



### Lights and Power

- Minibar
- Heating
- Air-conditioning



### On-line Automation & System Benefits

The on-line system allows ultimate occupancy dependant energy consumption control. The Guest controls energy consumption fully automatically by engaging the Key Card in the Energy Control Box. When entering the room, a single foyer light is lit to help the guest orientating.

Deployment of Energy Control Systems is rapidly increasing world-wide and will eventually become a standard implementation for all hotels.

## INCOS

Specific Energy & Room Control Brochure for:

**"Room Energy Management  
Building Control Functionality"**

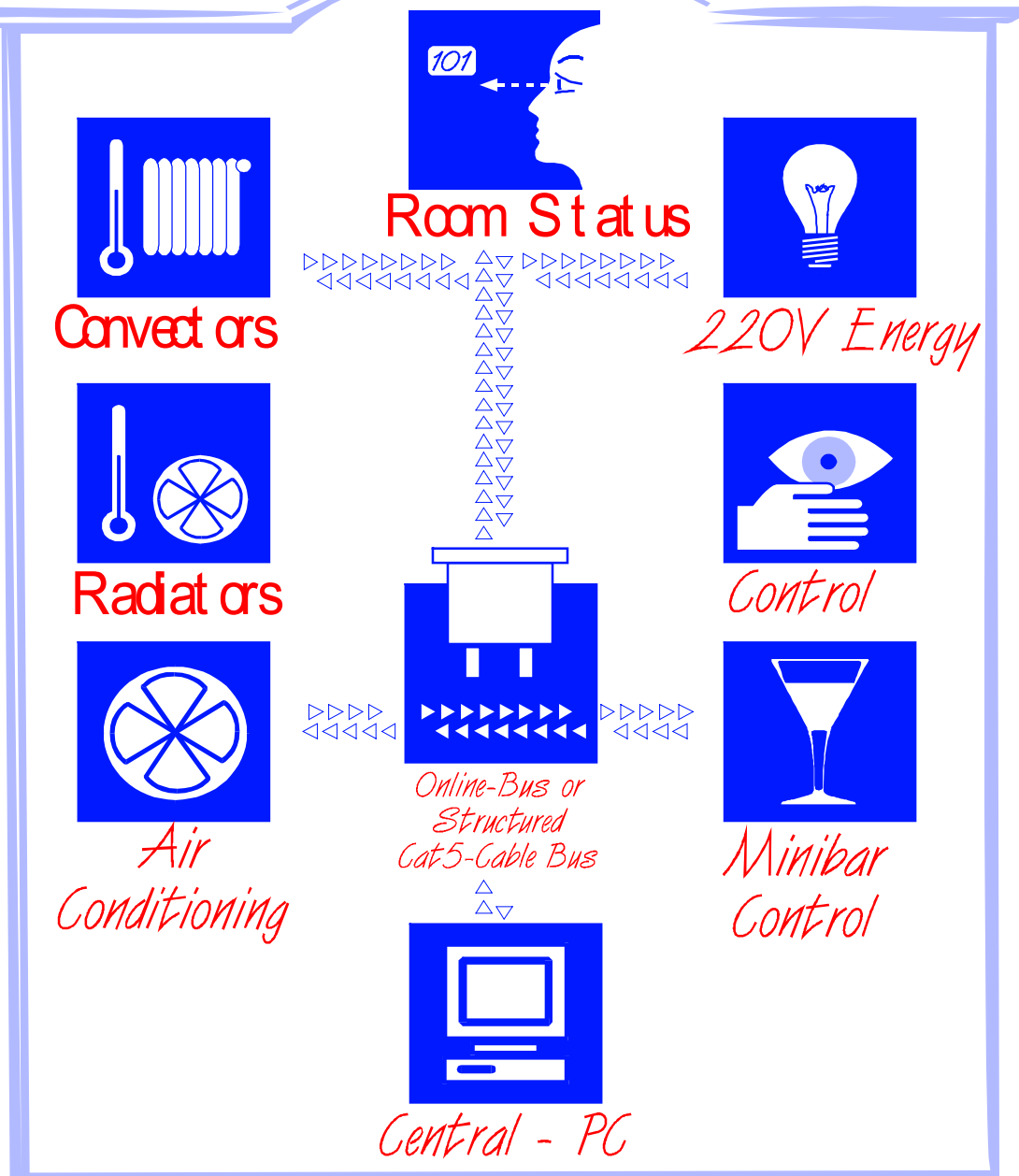
This Brochure is available upon request or can be downloaded from the web-site: <http://www.locksmith.co.th>

Hotel Card System  
CLASSIC Version

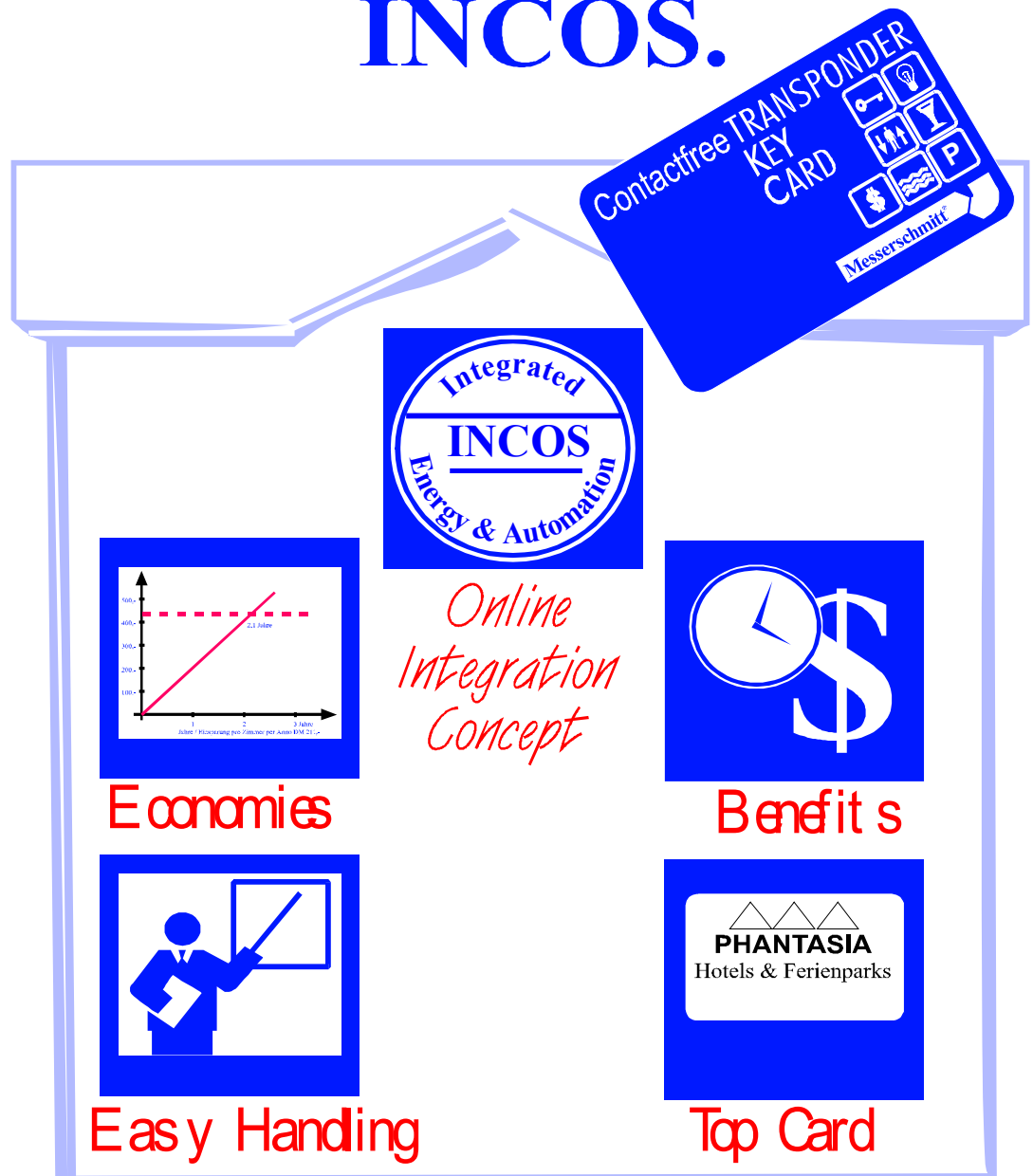


**Hotel**

*Benefits*



# Economies & Benefits INCOS.



# References



THE RITZ-CARLTON®



BURJ  
AL ARAB

Dubai



U.S. Airbase  
Ramstein





## SHORT TELEFAX INQUIRY

<p>To <b>Messerschmitt Systems</b> Nuremberg/ Germany</p> <p>Fax: +(66) 38 301 026</p>	<p><b>Sender (do not forget to fill in)</b></p> <p>Hotel: .....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>Name: .....</p> <p>Function:.....</p> <p>Tel.: .....</p> <p>Number of Rooms: .....</p>
------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

### We are interested in the following:

- Send us detailed information as marked
- Please call me

**URGENT**

### Products

**Info**

**Offer**

- |                                                                                                      |                       |                       |
|------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|
| <input type="radio"/> Hotel Card System, <b>CLASSIC- off-line</b>                                    | <input type="radio"/> | <input type="radio"/> |
| <input type="radio"/> Hotel Card System, <b>EXECUTIVE on-line</b>                                    | <input type="radio"/> | <input type="radio"/> |
| <input type="radio"/> <b>Transponder Card System</b>                                                 |                       |                       |
| <input type="radio"/> <b>Magnetic Card System</b>                                                    |                       |                       |
| <input type="radio"/> INCOS 7000 <b>Energy Control &amp; Safe System</b>                             | <input type="radio"/> | <input type="radio"/> |
| <input type="radio"/> <b>Room Safe</b> <input type="radio"/> PIN-Code <input type="radio"/> Card use | <input type="radio"/> | <input type="radio"/> |
| <input type="radio"/> <b>Minibars</b> <input type="radio"/> <b>Minibar User Control System</b>       | <input type="radio"/> | <input type="radio"/> |
| <input type="radio"/> <b>Automatic Minibar (Automated Billing)</b>                                   | <input type="radio"/> | <input type="radio"/> |

Remarks: .....

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Visit our web-site:     <http://www.messerschmitt.com>