

# HOSPITALITY AUTOMATION 2018

HOTELS  
APPARTEMENTS  
HOSTELS  
ELDERLY HOMES  
STUDENT HOUSING



# Understanding your Business

## Understanding you & your Guests

We will help you provide an exceptional experience to your guests!

(and get great customer reviews)



Guest experiences should be simple & beautiful.



The hotel operating cost should be as low as possible.



# Access & Climate Control & Overview Hospitality & Automation

HOSPITALITY IS ABOUT AUTHENTIC EXPERIENCES, ARCHITECTURE, LOCATION, SERVICE, GASTRONOMY, SUSTAINABILITY, STORY ...

## EVERYTHING MATTERS.

Andivi provides integral solutions for hotel rooms that covers: Access control, Comfort Control and the appropriate hardware and software to monitor and control all the necessary processes within the hotel and guest rooms (guest room management).

Our fields of expertise within hospitality automation cover all 360° of hotel room automation. Everything from one reliable supplier.

## ENERGY SAVING SWITCH

Andivi **NDV-EES2** Energy saving switch enables to auto switch-off selected electronic sockets and switch the thermostat into eco mode.

## CONTROLLER

Andivi **U-DDC Controller** is the central brain of the automation in the building allowing to connect all the components and giving them remote accesability.

## SUPPORT

If necessary, integrators can rely on quick & clear support when it comes to installation and set-up of Andivi equipment.



## SMART EL. DOOR LOCK

Electronic door lock with an integrated card reader Andivi **NDV** for easy and quick access to guest rooms. Reliable and guest-friendly solution for hotels, apartments, hostels ...



## THERMOSTAT

Energy saving thermostats Andivi **TRB** and Andivi **TRC** room controllers guarantee high room comfort, energy saving & optimisation, flexible connectivity and remote access.



## WEBSERVER

Andivi **WebServer** is a web based platform that enables monitoring and control of guest rooms from a remote PC. Anytime and anywhere - fast transparent and user friendly.



## WE CAN HELP YOU ACCOMPLISH 3 GOALS

1 Provide your hotel with a unified, all-in-one automation solution.

2 Help you save money by reducing and optimizing heating and cooling needs in every guest room.

3 Customize your automation solution according to the needs of your project.

# Intelligent Guest Room Solutions

## Components of the 360° Solutions

### DOOR LOCK WITH CARD READER (optional: card reader only)

The Door Lock in the hotel room is equipped with an RFID card reader. This allows the guest to open the door with a contactless smart card or a proximity card.

The key benefits of the RFID smart card technology is security and reliability (MIFARE technology), rich POS integration (e.g. paying for other services in the hotel, access to different areas, etc.).

Once the guest opens the door, the welcome light will invite them to enter the room.



other cooling/heating equipment.

Detect guest presence in the room by directly connecting the Energy Saving Switch to the room thermostat – save energy while the guest is not in the room.

Monitor in-room guest presence status and control temperature in all the rooms straight from the reception. The Andivi TRC room thermostats have the ability to be connected to every guest room in the hotel from any platform; e.g. Andivi WebServer or other 3rd party systems.

### CONTROL UNIT

Andivi U-DDC controller and U-MIO unit connects the energy saving switch and the TRC thermostat. Via Modbus protocol it transmits all the data from the room to the server. At the same time it operates all the lights on and turns off the power supply when the card is no longer in the energy saving switch.



### ENERGY SAVING SWITCH (KEY CARD HOLDER)

Upon arrival the guest card gets placed into the energy saving switch. This activates the power supply, sets the AC to comfort mode, enables the lights in the room and allows local blinds control.

After the card is removed from the energy saving switch for more than 15 seconds, the controller disables power within the room, switches AC to Economy mode, turns off the lights and disables local window blinds control.



### ROOM THERMOSTAT

Andivi TRC room controller is a multi-purpose programmable room thermostat used to control temperature and fan speed. With its unique intelligent thermodynamic algorithm it enables enhanced room comfort while using less energy.

It is intended for managing fan-coils and for regulating underfloor heating, ceiling cooling systems, radiator systems and other cooling/heating equipment.

Multi-purpose thermostat for manual/automatic control of fan-coils, underfloor heating systems, ceiling cooling systems, radiator system and



### CARD ENCODER

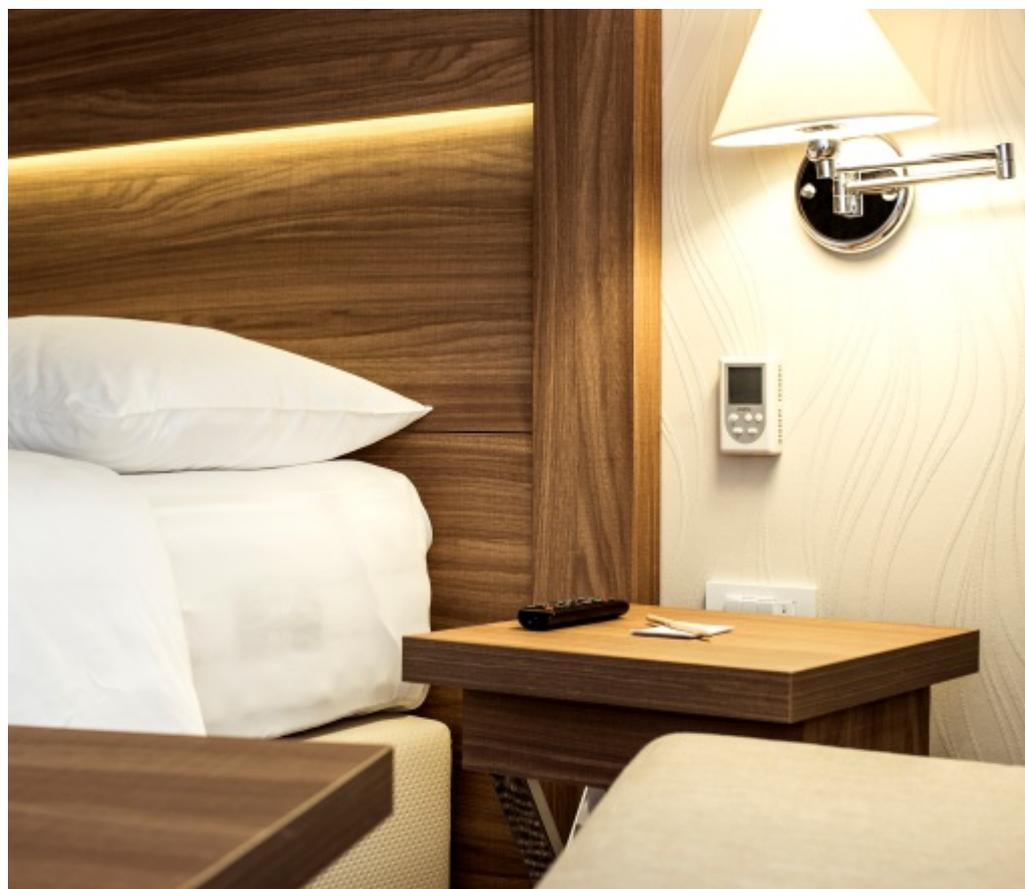
Andivi card encoder for coding contactless Mifare cards at the reception and defining access to specific areas of the property.



### GUEST ROOM SOFTWARE

The 360° Hotel Solution Software is simple, easy-to-use and features:

- ▶ programming electronic door locks or the external wall readers,
- ▶ programming energy saving switches,
- ▶ decoding/encoding guest cards
- ▶ making reservations/bookings,
- ▶ immediate cancelling of (lost/stolen) guest cards, saving logs etc.
- ▶ real-time room statuses,



# Intelligent Guest Room Solutions

## 360° Automation Solutions

Different categories of hotels and appartements have different needs and ideas on how to deliver the perfect guest room management experience. We have summed up the most common hotel guest room management solutions according to the hardware elements they consist of.

SOLUTIONS		BASIC 1	BASIC 2	ADVANC. 1	ADVANC. 2	ADVANC. +	PREMIUM 1	PREMIUM 2
		Stand-alone Solutions not connected to the reception				Solutions connected to the reception		
SOLUTION ELEMENTS	Door Lock	✓	✓	✓	✓	✓	✓	✓
	RFID card reader	✓	✓	✓	✓	✓	✓	✓
	Energy Saving Switch		✓	✓	✓	✓	✓	✓
	Thermostat TRC			✓ (or TRB)	✓	✓ (or TRB)		
	Thermostat TRB			✓ (or TRC)		✓ (or TRC)		
	Window sensor				✓	✓	✓	✓
	Door sensor				(optional)	(optional)	✓	✓
	Motion sensor						(optional instead ESS2)	(optional instead ESS2)
	U-DDC Controller					✓	✓	✓
	U-MIO2 I/O unit					✓	✓	✓
	TouchDisplay						✓	✓
	WebServer						✓	✓

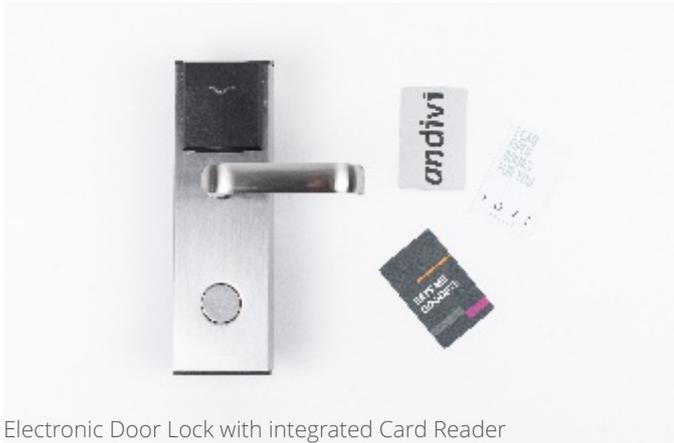


# Intelligent Guest Room Solutions

## 360° Hotel Solution Varieties

Different categories of hotels and appartements have different needs and ideas on how to deliver the perfect guest room management experience. We have summed up the most common hotel guest room management solutions according to the hardware elements they consist of.

### SOLUTION: BASIC 1



Electronic Door Lock with integrated Card Reader

### SOLUTION: BASIC 2



Electronic Door Lock with integrated Card Reader + Energy Saving Switch

### SOLUTION: ADVANCED 1 & 2\*



Electric Door Lock with integrated Card Reader + Energy Saving Switch + Energy Saving Thermostat (Advanced 1) + \*Door/Window Sensor (Advanced 2)

## SOLUTION: ADVANCED PLUS+



Electric Door Lock with integrated Card Reader + Energy Saving Switch + Energy Saving Thermostat + Door/Window Contact + U-DDC Controller and U-MIO I/O Units for connectivity to reception and remote control.

## SOLUTION: PREMIUM 1 & 2



Electric Door Lock with integrated Card Reader + Energy Saving Switch + TouchScreen Display + Door/Window Contact + U-DDC Controller and U-MIO I/O Units for connectivity to reception and remote control for additional energy saving & WebServer for custom functionality options and user interface options.

# Electronic Hotel Door Locks

## NDV Electronic Hotel Door Locks

Andivi Hotel Electronic Door Locks are **carefully crafted** of durable metal and plastic materials with **easy maintenance surface finish**. The lock latches meet all international standards in safety and reliability.

### OPTIONS

#### Color

Silver or gold finish

#### Mortise

ANSI or EURO Mortise

### HIGHLIGHTS

- ▶ Applicable to many building types
- ▶ RFID Mifare contactless technology
- ▶ Safety
- ▶ No wires
- ▶ Economical
- ▶ Easy maintenance
- ▶ Low voltage alarm
- ▶ Real time clock
- ▶ Memory
- ▶ Reliable system with mechanical key backup
- ▶ Anti-burglar system
- ▶ Anti-panic function
- ▶ Shock durability more than 1000 kg



ANSI mortise

NDV - High



### TECHNICAL SPECIFICATIONS

#### ▶ **Applicability**

Andivi Electronic Hotel Door Locks are suitable for any hotel, but also for any apartment or office building, staff areas in any commercial building, they are even applicable in private villas.

#### ▶ **RFID Mifare contactless technology**

Built-in reader for contactless RFID Mifare 13.56 MHz cards.

#### ▶ **Safety**

Effective enhancement of the hotel door-lock safety: if a card is lost, the cipher-code of the whole lock system can be modified quickly and easily with a system Card, so possible finders of the lost hotel card can not enter the room.

#### ▶ **No wires**

The electronic door-locks are power independently (by standard AA batteries) and thus indifferent to lack of UPS system or powershortages.

This way, the system is very reliable, not risking guest's comfort nor safety in case of short circuits or faults in the electrical system due to weather or other unpredictable conditions.

#### ▶ **Economical**

Built-in micro motors are reliable and of low power consumption.

#### ▶ **Easy maintenance**

A "Low voltage alarm" goes off discreetly before the batteries need changing, leaving the maintenance staff enough time to renew the stock and have new batteries at hand when they will need changing.

#### ▶ **Real Time Clock**

The door-locks feature an inner real time clock; guest cards will be terminated automatically when the leaving time comes; the staff card can choose the unlocking time.

#### ▶ **Memory**

One lock can memorize the latest 200 entries, which can be checked and printed.

#### ▶ **Reliability**

Every door-lock has its own mechanical key that unlocks it in case the electronic system fails to operate.

#### ▶ **Anti-burglar system**

All door-locks come with an anti burglar bolt.

#### ▶ **Anti-panic function**

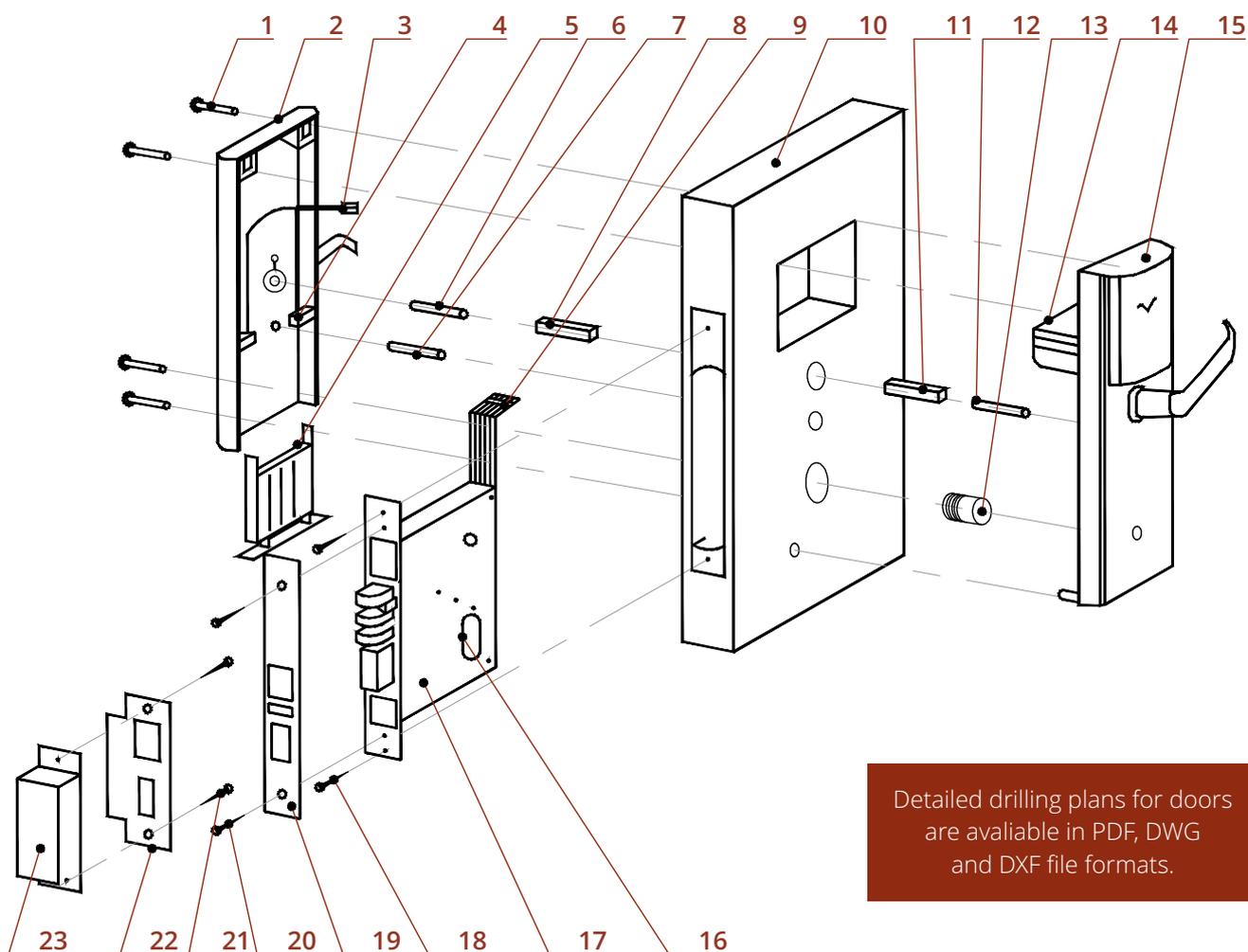
The anti-panic function enables quick opening of doors from inside at any time, in emergency cases as well. This means you can open the door in closed position at all times by using the interior door handle. The latchbolt and deadbolt are retracted simultaneously while the exterior side of the door-lock remains locked.

# Electronic Hotel Door Locks

## NDV Electronic Hotel Door Locks

### TECHNICAL AND ENVIRONMENTAL REQUIREMENTS

- ▶ **Adaptable to door thickness:** ANSI version: 36 ~ 60 mm; door width  $\geq$  120mm and EURO version 30 ~ 60 mm; door width  $\geq$  90mm
- ▶ **Working temperature:** -20 ~ +50°C
- ▶ **Humidity:**  $\leq$  95%, without corrosive gas and dust
- ▶ **Power Supply:** DC6V, 4 × AA alkaline batteries
- ▶ **Low power alarm** at 4.8V  $\pm$ 3%
- ▶ **Weight:** ~ 3 kg
- ▶ **Certification:** CE Certified (CE-RED), EMC
- ▶ **Fire Safety:** EN12209: 2016



### LOCK INSTALLATION

- |                             |                        |                                 |
|-----------------------------|------------------------|---------------------------------|
| 1 Cross screw M5*(45,50,55) | 9 Lock body plug       | 17 Lock body                    |
| 2 Lock rear panel           | 10 Wooden door         | 18 Wood cross screw M4*25       |
| 3 Power plug                | 11 Handle square shaft | 19 Side plate                   |
| 4 Power pin                 | 12 Handle spring       | 20 Cross screw M4*              |
| 5 Battery box               | 13 Lock head           | 21 Cross screw M4*              |
| 6 Behind handle spring      | 14 Main board          | 22 Locking parts (Strike Plate) |
| 7 Small square shaft        | 15 Lock panel          | 23 Plastic housing              |
| 8 Handle square shaft       | 16 Lock head screw     |                                 |

# Electronic Hotel Door Locks

## Different models

Andivi Hotel Electronic Door Locks come in several different designs and color finishes. All door locks are equipped with modern contactless RFID technology, that smoothly operates with standard Mifare cards. All Andivi electronic hotel door locks are fully compatible with Andivi 360° Solution for Hotel Rooms.



NDV-Basic-G



NDV-Basic-S



NDV-High-G



NDV-High-S



NDV-Fine-G



NDV-Fine-S



NDV-Around-G



NDV-Around-S

# Electronic Hotel Door Locks

## Different models



NDV-Slim-S



NDV-Slim-G



NDV-Tall-S



NDV-Tall-G

### DOOR LOCK SPECIFICATION PROCESS

Choose model

Choose mortise

Specify Color

Specify Door opening direction

NDV-[model]



ANSI mortise



ANSI

EURO mortise



EURO

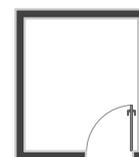
Silver surface finish



Gold surface finish



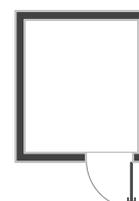
RH - right hand



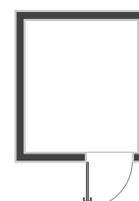
LH - left hand



RR - right hand reverse



LR - left hand reverse



# Electronic Hotel Door Locks

## NDV-Basic

Andivi NDV-Basic-S - silver edition  
Andivi NDV-Basic-G - gold edition

### DESCRIPTION

Andivi NDV-Basic electronic hotel door lock is a sturdy door-lock, made of highest quality metal and plastic materials. The basic model is popular for its minimalist design and great value for money.

### TECHNICAL DATA

- ▶ **Shell material:** stainless steel, easy maintenance matt finish.
- ▶ **Built-in RFID reader** for contactless Mifare 13.56 MHz cards.
- ▶ **ANSI mortise.**  
Adaptable to door thickness: 36 ~ 60 mm, door frame width: ≥ 120 mm.  
Optional: **EURO mortise** for door thickness: 30 ~ 60 mm, door frame width: ≥ 90 mm
- ▶ **Anti-panic function.**
- ▶ **Anti-burglar bolt.**
- ▶ **Shock durability:** more than 1000 kg
- ▶ **Working environment:** temperature: -20 ~ +50°C; humidity: ≤95%, without corrosive gas and dust
- ▶ **Power Supply:** DC6V, 4×AA alkaline batteries
- ▶ **Low power alarm** at 4.8V ±3%
- ▶ **Weight:** ~ 3,2 kg
- ▶ **Dimensions:** 249 × 56 (151.5 with handle) mm
- ▶ **Included:** mortise, side plate, 2 standard keys, strike plate, plastic housing, screws, shaft.



## NDV-High

Andivi NDV-High-S - silver edition  
Andivi NDV-High-G - gold edition

### DESCRIPTION

Model Andivi NDV-High is a sturdy door-lock, made of highest quality metal and plastic materials and has a recognisable modern design based on smooth curves and sophisticated proportions.

### TECHNICAL DATA

- ▶ **Shell material:** stainless steel, easy maintenance matt finish
- ▶ **Built-in RFID reader** for contactless Mifare 13.56 MHz cards
- ▶ **ANSI mortise.**  
Adaptable to door thickness: 36 ~ 60 mm, door frame width: ≥ 120 mm
- ▶ **Anti-panic function**
- ▶ **Anti-burglar bolt**
- ▶ **Shock durability:** more than 1000 kg
- ▶ **Working environment:** temperature: -20 ~ +50°C; humidity: ≤95%, without corrosive gas and dust
- ▶ **Power Supply:** DC6V, 4×AA alkaline batteries
- ▶ **Low power alarm** at 4.8V ±3%
- ▶ **Weight:** ~ 3,1 kg
- ▶ **Dimensions:** 269 × 77 (157.3 with handle) mm
- ▶ **Included:** mortise, side plate, 2 standard keys, strike plate, plastic housing, screws, shaft.



## NDV-Fine

Andivi NDV-Fine-S - silver edition  
Andivi NDV-Fine-G - gold edition

### DESCRIPTION

Model Andivi NDV-Fine is a sturdy door-lock, made of highest quality metal and plastic materials and has an elegant neutral design with a slightly embossed card reader.

### TECHNICAL DATA

- ▶ **Shell material:** stainless steel, easy maintenance matt finish
- ▶ **Built-in RFID reader** for contactless Mifare 13.56 MHz cards
- ▶ **ANSI mortise.**  
Adaptable to door thickness: 36 ~ 60 mm, door frame width: ≥ 120 mm
- ▶ **Anti-panic function**
- ▶ **Anti-burglar bolt**
- ▶ **Shock durability:** more than 1000 kg
- ▶ **Working environment:** temperature: -20 ~ +50°C; humidity: ≤95%, without corrosive gas and dust
- ▶ **Power Supply:** DC6V, 4×AA alkaline batteries
- ▶ **Low power alarm** at 4.8V ±3%
- ▶ **Weight:** ~ 2,6 kg
- ▶ **Dimensions:** 285 × 69,5 (160.5 with handle) mm
- ▶ **Included:** mortise, side plate, 2 standard keys, strike plate, plastic housing, screws, shaft.



# Electronic Hotel Door Locks

## NDV-Around

Andivi NDV-Around-S - silver edition  
Andivi NDV-Around-G - gold edition

### DESCRIPTION

Andivi NDV-Around electronic hotel door lock is a sturdy door-lock, made of highest quality metal and plastic materials. The NDV-Around model has a traditional and slightly victorian english design.

### TECHNICAL DATA

- ▶ **Shell material:** stainless steel, easy maintenance matt finish.
- ▶ **Built-in RFID reader** for contactless Mifare 13.56 MHz cards.
- ▶ **ANSI mortise.**  
Adaptable to door thickness: 36 ~ 60 mm, door frame width: ≥ 120 mm.
- ▶ **Anti-panic function.**
- ▶ **Anti-burglar bolt.**
- ▶ **Shock durability:** more than 1000 kg
- ▶ **Working environment:** temperature: -20 ~ +50°C; humidity: ≤95%, without corrosive gas and dust
- ▶ **Power Supply:** DC6V, 4×AA alkaline batteries
- ▶ **Low power alarm** at 4.8V ±3%
- ▶ **Weight:** ~ 2,8 kg
- ▶ **Dimensions:** 265 × 57 (151.5 with handle) mm
- ▶ **Included:** mortise, side plate, 2 standard keys, strike plate, plastic housing, screws, shaft.



## NDV-Slim

Andivi NDV-Slim-S - silver edition  
Andivi NDV-Slim-G - gold edition

### DESCRIPTION

Model Andivi NDV-Slim is a sturdy door-lock, made of highest quality metal and plastic materials and has a minimalistic and slender appearance and can thus be used in a variety of boutique projects.

### TECHNICAL DATA

- ▶ **Shell material:** stainless steel, easy maintenance matt finish
- ▶ **Built-in RFID reader** for contactless Mifare 13.56 MHz cards
- ▶ **ANSI mortise.**  
Adaptable to door thickness: 36 ~ 60 mm, door frame width: ≥ 120 mm  
Option: **EURO** mortise
- ▶ **Anti-panic function**
- ▶ **Anti-burglar bolt**
- ▶ **Shock durability:** more than 1000 kg
- ▶ **Working environment:** temperature: -20 ~ +50°C; humidity: ≤95%, without corrosive gas and dust
- ▶ **Power Supply:** DC6V, 4×AA alkaline batteries
- ▶ **Low power alarm** at 4.8V ±3%
- ▶ **Weight:** ~ 2,8 kg
- ▶ **Dimensions:** 280 × 50 (135 with handle) mm
- ▶ **Included:** mortise, side plate, 2 standard keys, strike plate, plastic housing, screws, shaft.



## NDV-Tall

Andivi NDV-Tall-S - silver edition  
Andivi NDV-Tall-G - gold edition

### DESCRIPTION

Model Andivi NDV-Tall is a classic and robust door-lock made of highest quality metal and plastic materials and has an elegant neutral style. This model makes it really easy to switch batteries and fits most of the projects.

### TECHNICAL DATA

- ▶ **Shell material:** stainless steel, easy maintenance matt finish
- ▶ **Built-in RFID reader** for contactless Mifare 13.56 MHz cards
- ▶ **ANSI mortise.**  
Adaptable to door thickness: 36 ~ 60 mm, door frame width: ≥ 120 mm  
Option: **EURO** mortise
- ▶ **Anti-panic function**
- ▶ **Anti-burglar bolt**
- ▶ **Shock durability:** more than 1000 kg
- ▶ **Working environment:** temperature: -20 ~ +50°C; humidity: ≤95%, without corrosive gas and dust
- ▶ **Power Supply:** DC6V, 4×AA alkaline batteries
- ▶ **Low power alarm** at 4.8V ±3%
- ▶ **Weight:** ~ 3,1 kg
- ▶ **Dimensions:** 266 × 80 (120 with handle) mm
- ▶ **Included:** mortise, side plate, 2 standard keys, strike plate, plastic housing, screws, shaft.



# Electronic Door Locks

## What is included?



**Front Plate**  
including card reader



**Mortise**  
ANSI version



**Back Plate**  
double lock bolt

### The difference between ANSI and EURO mortise?

ANSI	EURO
------	------

#### Models

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>▶ NDV - Basic</li> <li>▶ NDV - High</li> <li>▶ NDV - Fine</li> <li>▶ NDV - Around</li> <li>▶ NDV - Slim</li> <li>▶ NDV - Tall</li> <li>▶ NDV - Q</li> </ul> | <ul style="list-style-type: none"> <li>▶ NDV - Basic</li> <li>▶ NDV - Slim</li> <li>▶ NDV - Tall</li> </ul> |
|--|---|

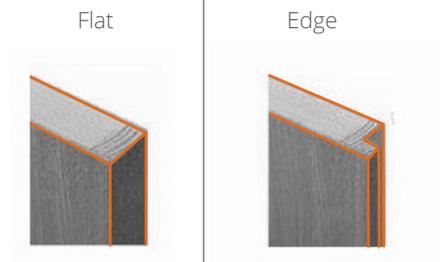
#### Door Frame Thickness

≥ 36-60 mm	≥ 30-60 mm
------------	------------

#### Door Width

≥ 120 mm	≥ 90 mm
----------	---------

#### Door Side



#### Alarm (if door is not closed well)

Yes	No
-----	----

#### Inner side

Double lock bolt	/
------------------	---

#### Mortise



For dimensions visit: [www.andivi.com](http://www.andivi.com)

# Intelligent Hotel Room Equipment

## Energy Saving Switch

Andivi NDV-ESS2

### DESCRIPTION

Upon arrival the hotel guest card is placed in the NDV-ESS-2 energy saving switch, which **activates the in-room power supply**, sets the AC into Comfort mode, allows switching on the lights in the room and controlling the window blinds. When the card is withdrawn from the energy saving switch for a certain period of time, the power turns off, air conditioning is reset to Economy mode, the lights are turned off and the blinds' controls disabled. An indispensable part of equipment that **helps hotels save significant amounts of energy**.

### TECHNICAL DATA

- ▶ IP20 **plastic housing**.
- ▶ **Voltage:** 180-250V
- ▶ **Power:** 40A
- ▶ **Mounting:** standard 86×86mm mounting box
- ▶ **Power cuts off automatically**, when the card is removed for more than 15 seconds.
- ▶ **Only a specific Mifare card** can activate the power supply.

### TYPE

Andivi NDV-ESS2 - White  
(Energy Saving Switch in white finish)

Andivi NDV-ESS2 - Black  
(Energy Saving Switch in black finish)

Andivi NDV-ESS2 - Gold  
(Energy Saving Switch in gold finish)

### CONNECTION

The Andivi NDV-ESS2 energy saving switch can be connected to Andivi TRC and Andivi TRB thermostats in order to save energy as the guests leaves the room.

## Card Management Software

Andivi NDV-SW2.1

### DESCRIPTION

With the help of the user friendly and easy-to-use hotel card management software you can do the following:

- ▶ **First setup and hotel specific configuration** of the all the electronic door locks, all standalone card readers and all energy saving switches in the building.
- ▶ **Guest Card Management:** individual setup of hotel guest cards including check-in/out time & access to different levels of the building.
- ▶ **Hotel Personal Card Management:** setup of cards for internal personal - cleaning, maintenance, receptionist, master, administrator, etc.)



# Intelligent Hotel Room Equipment

## Guest Card

Andivi NDV-M-B / Andivi NDV-M-P

### DESCRIPTION

NDV-M are Mifare cards, **standard contactless RFID proximity cards**. Each card is programmed to a single hotel room and can be reprogrammed several thousand times. If a card is lost, it can be cancelled in the hotel software immediately. Cards can be blank (white), or they can be customized according to your own design or brand identity.

### TECHNICAL DATA

- ▶ **Operating frequency:** 13.56 Mhz
- ▶ **Working temperature:** -20°C ~ +50°C
- ▶ **Anti-collision mechanism** supports multi-card operation. You can keep the Mifare card together with other cards without risking interference or data loss.
- ▶ **Fast data transfer:** 106 kbps
- ▶ Divided into 16 sectors with 4 blocks each (one block consists of 16 bytes).
- ▶ **Memory:** 1/4 kbyte
- ▶ **Operating distance:** < 10 mm
- ▶ Contactless transmission of data and energy supply (**no battery needed**).
- ▶ Each card has a unique 32 sequence number.
- ▶ **Write endurance:** 100.000 cycles.
- ▶ **Data retention:** 10 years.

### TYPES

Andivi NDV-M-B  
(Blank Mifare card, white, no branding)

Andivi NDV-M-P  
(Printed Mifare card, custom design)

### MOCK-UP

The guest card can be designed according to your preferences. Suitable for orders above 500 cards.

Format: 54 x 85 mm  
Filetype: PDF, PSD, TIF.

## Card Encoder

Andivi NDV-E1

### DESCRIPTION

The reception is equipped with a card encoder, which **can record the relevant data on smart cards and contactless cards**. Hotel-room-specific cards can be encoded, time limitations of access can be determined, prolonged or shortened, lost cards can be cancelled.

### TECHNICAL DATA

- ▶ Plastic housing.
- ▶ Power and data transfer by USB.
- ▶ Encoding software is included in the solution.
- ▶ **Size:** 100×140×30 mm (W×L×H)
- ▶ **Weight:** 350 g



# Intelligent Hotel Room Equipment

## External Card Reader

Andivi NDV-WRFIDk (Programmable with programming card)

### DESCRIPTION

The external RFID NDV-WRFIDk reader is **built into the wall**, directly adjacent to a door of the hotel room. When a guest approaches the reader with the contactless card, which is coded specifically for a given room, the hotel door opens automatically. The NDV-WRFIDk reader can be programmed to 1000+ different cards with the same access restrictions and is applicable in hotels, appartements, elderly homes, student dorms or parts of commercial buildings **where limited access is required**, for example to dining/fitness and other areas.

### TECHNICAL DATA

- ▶ **Housing:** Plastic, IP20 (Optional: IP65) Indoor use (optional outdoor use).
- ▶ **Power Supply:** 12V DC
- ▶ **Card type:** Mifare 13.56 Mhz
- ▶ **Reading range:** 3-7cm
- ▶ **Size:** 73x113x15mm
- ▶ **Weight:** 83 g



## Access Control Power Supply

Andivi NDV-PS

### DESCRIPTION

The access control power supply supplies electrical power to the electric strike. It has a timer that limits the time the strike is released and allows the door to be opened.

### TECHNICAL DATA

- ▶ **Input voltage:** 110 ~ 240V AC
- ▶ **Input Frequency:** 50-60Hz
- ▶ **Output voltage:** DC12V
- ▶ **Output current:** 3A
- ▶ **Output voltage trim range:** ±10% ~ ±15% Load: 1% typical
- ▶ **Output stability:** 0.5% typical
- ▶ **Ripple and noise:** 1%, peak to peak 100mVp-p typical
- ▶ **Insulation voltage:** Junior/sub-polar inter-1500 V AC, primary/shell between 1500 V AC, sub-polar/shell between 500V AC
- ▶ **Hold Time:** full load typically 20ms
- ▶ **Operating temperature:** -20°C ~ +65°C
- ▶ **Overload protection:** All outputs in a short circuit are overload protected; power output of 0-15 seconds delay locks
- ▶ **Outer steel case size:** 105x9x34mm
- ▶ **Weight:** 311g
- ▶ **Attention:** to prevent overload, an electronically controlled lock must be set to 0 seconds delay.



## Electric strike

Andivi NDV-ES

### DESCRIPTION

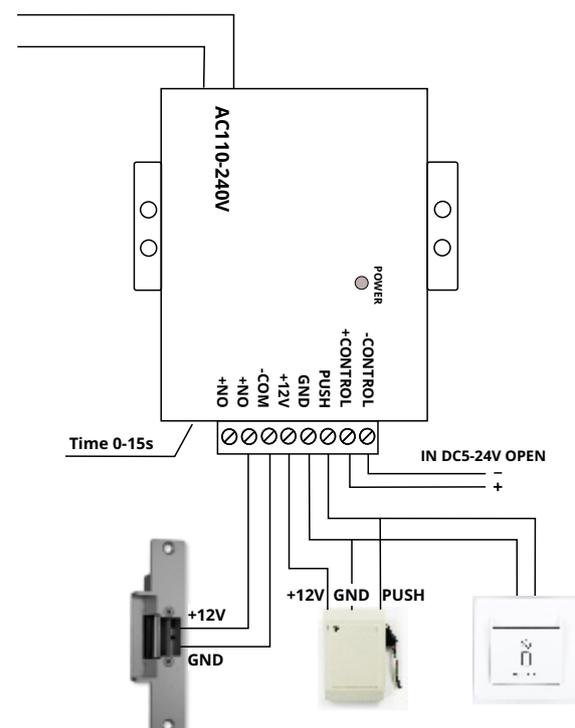
The electric strike NDV-ES **needs to be powered** with an access control power supply (like Andivi NDV-PS). There, the timeout can be set which determines, for how long a door can be opened before the strike returns to locked mode. NDV-ES can be combined with almost **endless possibilities of door handles or door knobs in various materials and designs**.

### TECHNICAL DATA

- ▶ **Material:** Stainless steel
- ▶ **Face plate:** 150x39,5x34mm (LxWxH)
- ▶ **Voltage:** 12V DC
- ▶ **Current:** NO 450mA, NC 200mA
- ▶ **Feature:** Fail secure (NO)  
Fail safe (NC)
- ▶ **Weight:** 319g
- ▶ **Suitable for wooden doors.**



### Wiring



# Comfort Control

## Thermostat

Andivi TRB-ALNK  
(with Modbus + Keycard option)



### DESCRIPTION

TRB digital programmable thermostats family for fan control and temperature setting come in various versions: 2-pipe/4-pipe, 2-wired or 3-wired motorized Valve or 0-10V Valve Actuator and with **RS485** or **Modbus** communication.

### TECHNICAL DATA

- ▶ **Staging:** heating / cooling, cooling only, heating only.
- ▶ **Application:** 2-Pipe, 2-Wired Motorized Valve, 3-Wired Motorized Valve, Fan Control (auto, low, medium, high)
- ▶ **Communication:** RS485, Modbus RTU
- ▶ **Load:** Current Load for Valve: 1A inductive, 2A resistance; Current Load for Fan 1A inductive, 2A resistance
- ▶ **Power Supply:** 230 VAC
- ▶ **Features:** Memory, Clock, Keycard (or Reed contact), lock, sleep.
- ▶ **Sensor:** NTC 3950, 100K
- ▶ **Temperature range:** 5 - 35°C
- ▶ **Design:** Acrylic surface, resistant against scratches. Color: Alpine White or Night Black Backlight: Light Blue Buttons: Touch
- ▶ **Housing:** PC + ABS (fireproof)
- ▶ **Installation:** 86×86 and 60mm European Box
- ▶ **Dimensions:** 86 × 86 × 13.3 mm



## Room Controller

Andivi TRC-D  
(with Modbus, Keycard option, reed contacts & advanced WebServer connectivity)



### DESCRIPTION

Andivi TRC-A/D room controller is a multi-purpose programmable room thermostat used to control temperature and fan speed. With its **unique intelligent thermodynamic algorithm** it enables enhanced room comfort while using less energy. The TRC room controller can control fan coils, underfloor heating, ceiling cooling systems, radiator systems and other cooling/heating elements - several different systems **simultaneously!** They ensure comfortable Fan Coil control (PI regulation) with minimum air flow - this allows for a pleasant heating/cooling change.

### TECHNICAL DATA

- ▶ **Fan coil system:** 2-pipe/4-pipe
- ▶ **Fan control:** manual/automatic
- ▶ **Heating/cooling change-over:** manual/automatic
- ▶ **3 × digital relay output:** fan stages  
**2 × digital relay output:** on/off Valve
- ▶ **Communication:** Modbus/RTU RS485
- ▶ **Temp. sensor:** internal integrated NTC 3k, external optional
- ▶ **Fan coil regulation:** Pi regulation
- ▶ **Direct output control:** over Modbus
- ▶ **Power supply:** 230VAC, 50/60Hz
- ▶ **Installation:** 65×65 box
- ▶ **Dimensions:** 75×120×42mm



# Control & Monitoring U-DDC Controller & WebServer



## Controller

### Andivi U-DDC

Andivi U-DDC KNX 1.0 is a freely programmable Automation Station / DDC controller supporting Modbus, KNX & BACnet . It can be used to control residential and non-residential buildings, together with integration of Andivi third-party devices.

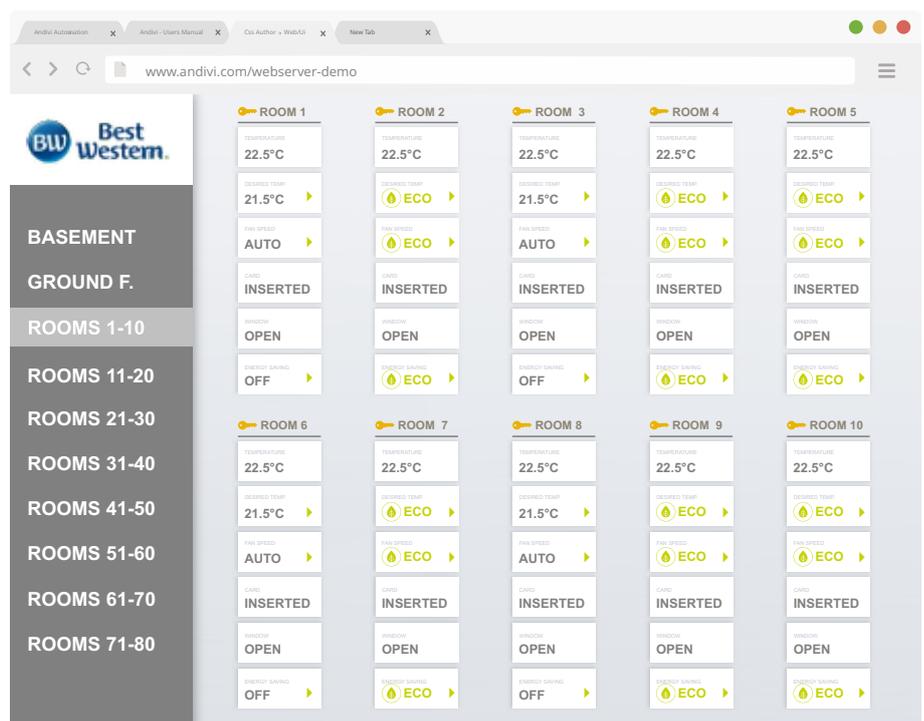
- ▶ Ready for WebServer with visual and textual form, freely adaptable to projects & with HTTPS support.
- ▶ Schedulers & alarm management
- ▶ Remote management with any building management system (BMS)
- ▶ Concurrent use of KNX or/and Modbus or/and BACnet devices on the same controller
- ▶ Integration of 3rd-party devices
- ▶ Stand alone application or use in a device or system network
- ▶ Optional features: MySQL and MS SQL database support

## WebServer

### Andivi WebServer

Andivi Webserver enables remote monitoring and control of hotel room automation on various levels.

- ▶ **Climate control:** see the current room temperature & set it from a remote PC, set the current fan speed in the room and set it from a remote PC.
- ▶ **Presence indication:** see if the guest room card is inserted into the energy saving switch or if it is removed,
- ▶ **Lights control:** monitor and control the status of all the lights in the room.
- ▶ **Additional extensions:** monitor and control the status of all the lights in the room.





# Hospitality Automation

Hotels - Apartements - Hostels - Elderly Homes - Student Housing

## andivi

Andivi Building Automation Solutions

**Andivi d.o.o.**

Zagrebška cesta 102  
2000 Maribor  
Slovenia

[www.andivi.com](http://www.andivi.com)

[info@andivi.com](mailto:info@andivi.com)

tel: +386 2 450 31 00

fax: +386 2 450 31 99

Find us on Social Media:

