



Hotel Management System



Ave material must be installed by qualified people and the plant must be tested by an expert; according to the current standards

DESIGN:
B. DALL'ECO
L. MERLETTI

The installer takes care to leave his name and address to the customer and preferably also the name and address of the local technical support centre

System Description

136

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HOME AUTOMATION

HOTEL MANAGEMENT

VIDEO INTERCOM

ANTI INTRUSION

WIRING DIAGRAMS
AND PRESCRIPTIONS



TECHNICAL CATALOGUE

System Description

ADVANCED HOTEL MANAGEMENT SYSTEM FEATURES

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SCALABILITY

Ave's hotel system has been designed to meet the needs of small establishments as well as large chains. The basic functions are already able to guarantee safe and precise management of your hotel. If new needs arise with the growth of the structure, Domina Smart Hotel is able to respond to new requirements; the new functions will be integrated through updates, keeping the initial investment intact.

AESTHETIC

Different material and shapes merged in a modern design: Domina Hotel is a Stylish choice. All devices, switches to card readers, thermostats to sockets, are aesthetically matching the surrounding ones to give the Hotel a unique and un-matchable atmosphere. Enhanced by the touch technology, the commands become design elements, the sockets disappear behind exclusive sliding plates with uncountable customization options.

COMFORT

The hotel management devices designed by AVE are at the customer's disposal to offer maximum comfort during his stay. The thermostat, simple to use and intuitive, enables the customer to control temperature in the room while through the signalling system he can decide when and if he can be disturbed. The chambermaid will not ring at or open the door while the customer is in the room.



RELIABILITY

The equipment of the system combines a customizable and unique aesthetic with the reliability to give a pleasure to the guest of the hotel. The rooms are monitored by the reception; in the event of a failure of the main supervisor, each room will keep functioning, ensuring for the guest the same level of comfort.

TECHNOLOGY

All products designed by AVE for hotel management use the contactless Mifare® technology. For your own safety and for the safety of your customers, access cards are totally safe and cannot be cloned. Thanks to the possibility to integrate the card with an e-money service (not supplied by AVE) you will be able to offer your customers a range of totally new services through the

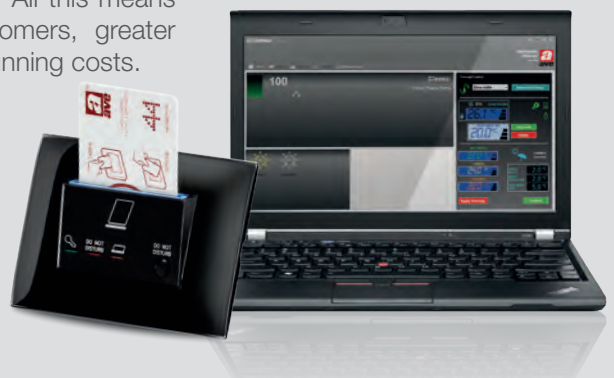
entry card which will also be used for payments.

EFFICIENCY AND ENERGY SAVING

The continuous monitoring from the reception will keep you informed of every event which occurs in the hotel and allow you to take the necessary steps and limit all inefficiencies. With Domina Hotel you can also check and manage energy consumptions for saving purposes. All this means more satisfied customers, greater efficiency and less running costs.

INTEGRATION

The Domina Smart system for hotels integrates with residential home automation devices (controls, actuators, touch screens). Through software interfaces it communicates with the main PMS applications in order to optimize check-in and check-out. In the same way, the system communicates with the centralized air conditioning systems; the room thermostat directly manages the air conditioner.



WHY CHOOSE AVE AMONG MANY OFFERS

137

1. For its highly user-friendly features.

AVE's hotel management software is user-friendly from the onset. Just a few screenshots outline the entire hotel, thus ensuring control of each room, area and device.

2. For enhanced safety.

Possibility to disable all appliances when room is empty. Any alarm occurring in the hotel is immediately reported and displayed at the reception.

3. To prevent energy wastage.

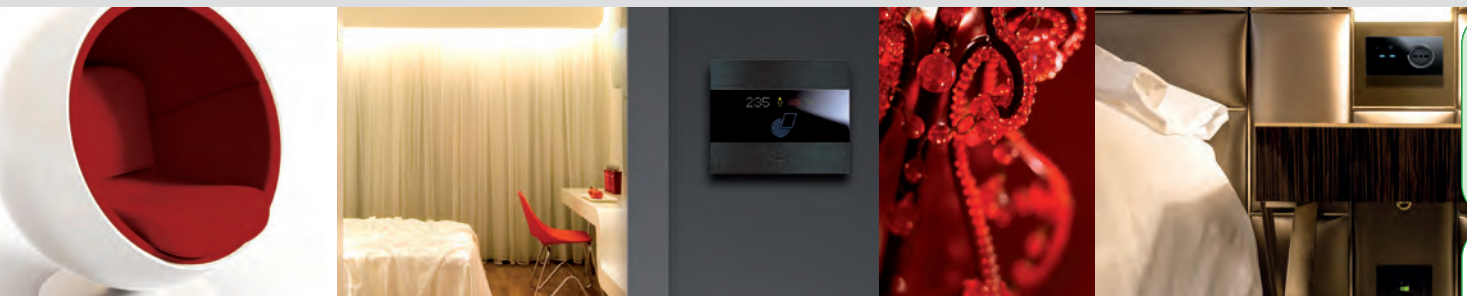
The DOMINA Hotel system optimizes consumption as the Energy Saving function manages rooms and common areas according to their occupancy status.

4. Because AVE totally expresses "Made in Italy".

Ever keen on value and quality, AVE has maintained its production lines in Italy. Choosing AVE shows a preference for Italian products while enhancing your facility's added value.

5. Because AVE offers a complete product range.

AVE's product range includes: hotel management, residential home automation, fire detection systems, wiring accessories, anti-intrusion, video entry phones, ventilation, etc.



6. Because AVE customizes hotels.

With an extensive choice of colours and customizable devices (i.e., logos, symbols and wording), AVE's products are designed to ensure Customer satisfaction with hotels that meet expectations.

7. To check the hotel's status remotely.

Thanks to DOMINA Hotel software all system components connected to the hotel network can be monitored and operated remotely.

8. To always be in control.

The DOMINA Hotel system controls the status of empty rooms. If a door or a window is opened when the guest is away, the system displays an alarm on the reception's PC, thus preventing thefts.

9. Because it is a modern, innovative and flexible product.

DOMINA Hotel interfaces with payment systems, air conditioning systems and the most widely used front office bookings management software.

10. To optimize the cost of staff.

Staff will receive information about the rooms to be cleaned at the very moment the guest checks out. Furthermore, an advanced access control system supervises the time staff spend in the room to improve work coordination.

11. For assistance.

AVE's technical support is guaranteed by qualified personnel in the company and assistance centres all over Italy.

HOME AUTOMATION

HOTEL MANAGEMENT

VIDEO INTERCOM

ANTI INTRUSION

WIRING DIAGRAMS
AND PRESCRIPTIONS



Reasons to choose a hotel automation system:

1. To reduce management costs

The automation allows better efficiency and easiness and consequently you can save energy consumptions for light, heating etc. up to 35-40%.

2. For safety of the whole structure

Modern automation systems allow an integration with anti-intrusion, fire protection and emergency call systems to grant very high safety and security standards.

3. To distinguish yourself from the mass

An automated hotel is a luxury hotel that can offer better services and solutions to stand out.

4. To have a system updated with the latest technologies

The future of hospitality is hotel automation. Nowadays the hotels that want to excel must offer something more to their guests.

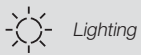
5. To have a total control of the whole structure

The hotel system allows to monitor all devices, environments and people in the hotel.



SMART FUNCTIONS

DOMINAhotel is not only an advanced hotel automation system perfectly integrated with the system 44 wiring accessories, but it also marks an important evolutionary stage in the field of hotel management. DOMINAhotel is a system able to ensure energy saving, comfort, functionality and design. It is also integrated with the main home automation functions of the DOMINA smart range which gives to the system a wide range of flexible versatile functions in terms of satisfaction of the most demanding hotels requirements and for an ergonomic installation.



Lighting

Automatic control of courtesy light and manual control of room lighting using DOMINApplus home automation controls and actuators



Dimmer

Local and/or remote room lighting control with dimming level using DOMINApplus home automation controls and actuators



Automation

Local and/or remote control of motorised shutters and curtains by home automation DOMINApplus home automation controls and actuators



Scenarios

Management of room scenarios that can be activated remotely through the supervising PC or manually through DOMINA smart home automation controls



Thermoregulation

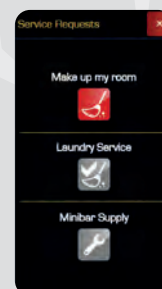
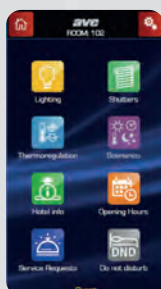
Four pipes thermoregulation area valves management, based on the room temperature and occupancy, using DOMINA smart home automation actuators



Technical alarm

Management of technical alarms, both manuals and automatics, through DOMINA smart home automation controls

Touch Screen and Smart Phone-based controls





TECHNICAL CATALOGUE

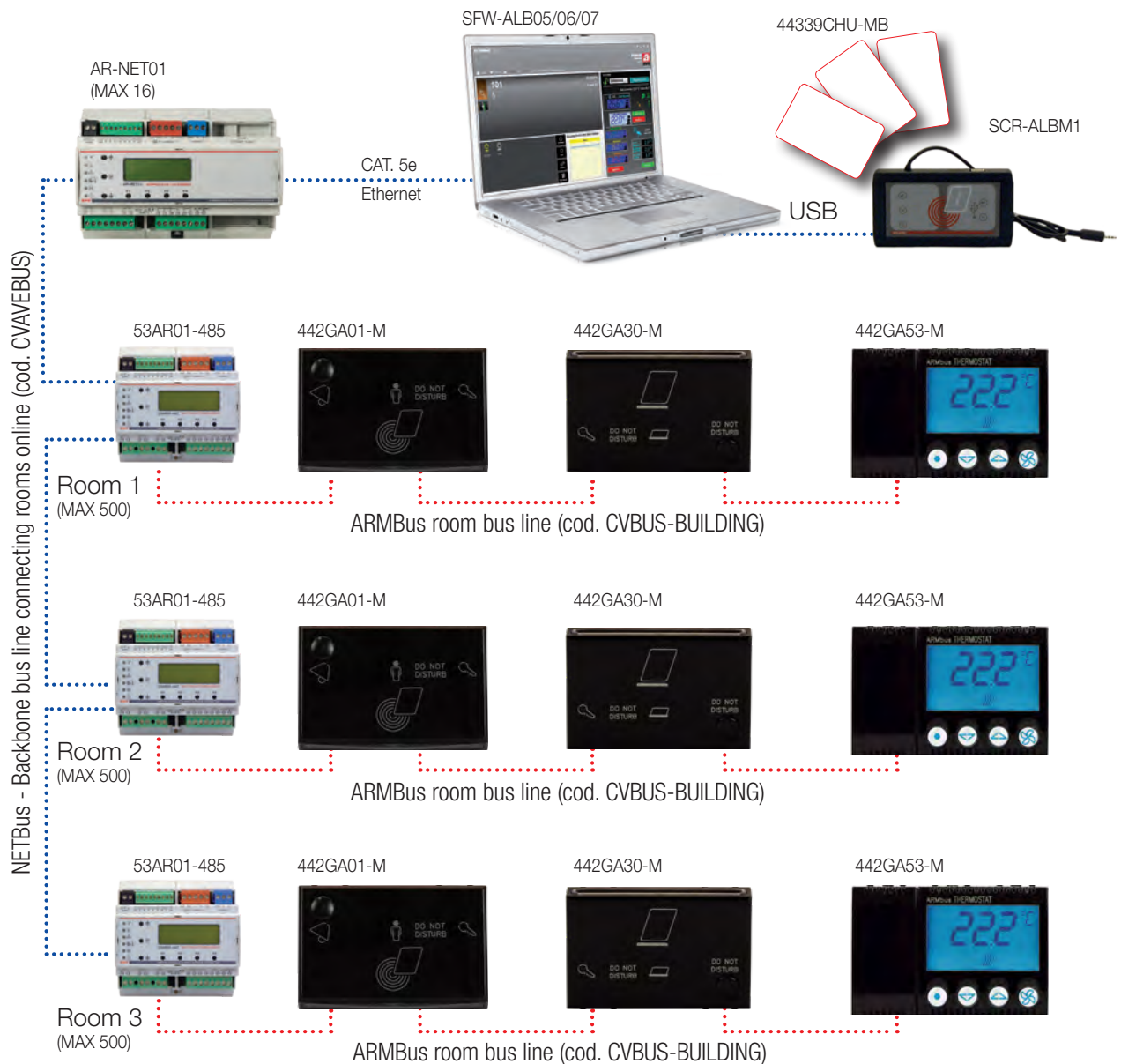
Summary Tables

DOMINA HOTEL NETWORK SYSTEM

Summary table of the hotel system - MIFARE Technology

RANGES	External reader	Internal reader	Thermostat	Control unit	Interface	Programmer	Software	Card
MIFARE online	441GA01-M (Domus)	441GA30-M (Domus)	441GA53-M (Domus)	53AR01-485 (room control unit)	AR-NET01	SCR-ALBM1	SFW-ALB05 SFW-ALB06 SFW-ALB07	44339CHM-M (Master) 44339CHU-MB (User)
	445GA01-M (Tekla)	445GA30-M (Tekla)	445GA53-M (Tekla)					
	449GA01-M (Class)	449GA30-M (Class)	449GA53-M (Class)	53AR02-485 (common areas control unit)				
	442GA01-M (Life)	442GA30-M (Life)	442GA53-M (Life)					
	443GA01-M (Allumia)	443GA30-M (Allumia)	443GA53-M (Allumia)					
	442GA02-M (AveTouch)							

i The DOMINA^{Hotel} system controls 500 rooms, 16 common areas and 16 floors

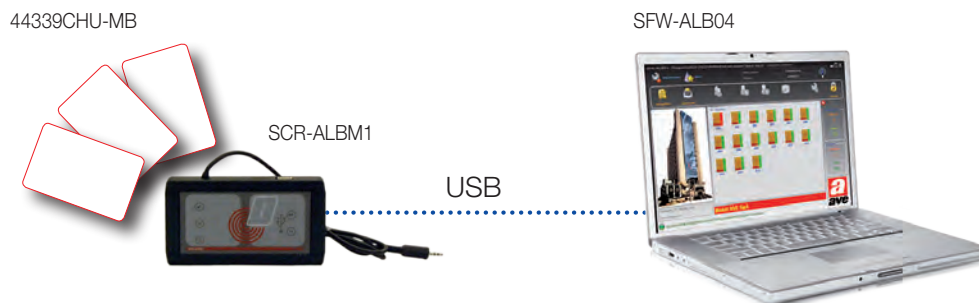


Note: we recommend a line dedicated to system power (UPS)

DOMINA HOTEL STAND ALONE SYSTEM

Summary table of the hotel system - MIFARE Technology

RANGES	External reader	Internal reader	Thermostat	Control unit	Interface	Programmer	Software	Card
MIFARE stand-alone	441GA01-M (Domus) 445GA01-M (Tekla) 449GA01-M (Class) 442GA01-M (Life) 443GA01-M (Allumia) 442GA02-M (AveTouch)	441GA30-M (Domus) 445GA30-M (Tekla) 449GA30-M (Class) 442GA30-M (Life) 443GA30-M (Allumia)	441GA53-M (Domus) 445GA53-M (Tekla) 449GA53-M (Class) 442GA53-M (Life) 443GA53-M (Allumia)	53GA72-TM	-	SCR-ALBM1	SFW-ALB04	44339CHM-M (Master) 44339CHU-MB (User)

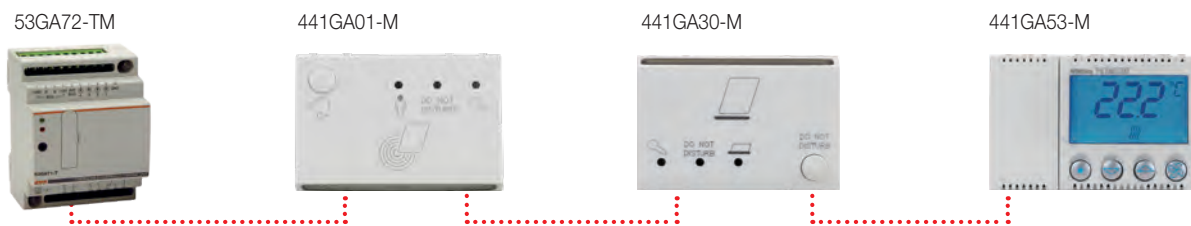


Room 1



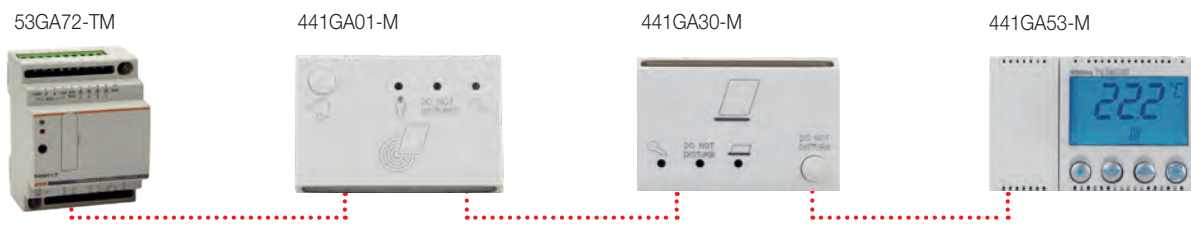
ARMBus room bus line (cod. CVBUS-BUILDING)

Room 2



ARMBus room bus line (cod. CVBUS-BUILDING)

Room 3

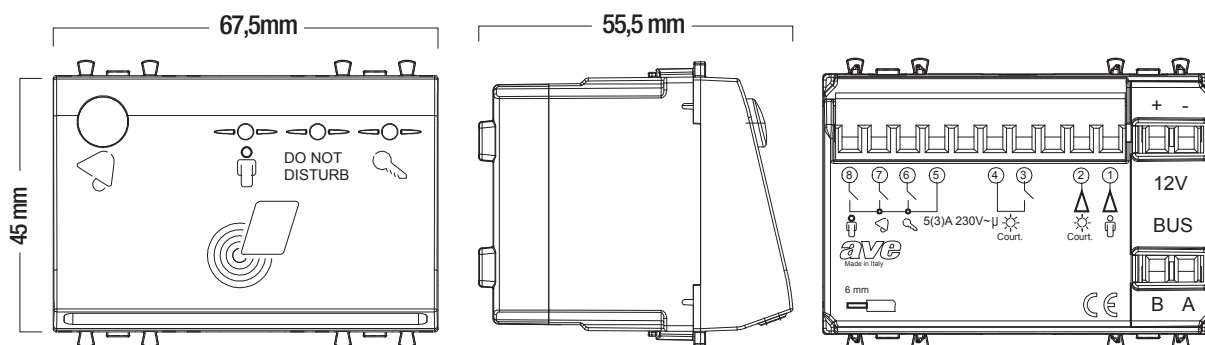


ARMBus room bus line (cod. CVBUS-BUILDING)

Note: we recommend a line dedicated to system power (UPS)



The device cod. 44..GA01-M is an external reader with MIFARE® technology that allows access control to the rooms and other areas of the hotel. It is able to operate in both Stand Alone and Online mode, depending on how it is configured and installed. MIFARE® technology allows to generate cards with a higher security standard that can also be integrated with advanced services (such as the possibility of integrating the cards provided by AVE with payment services provided by other companies) with top of the range reading performance. The device must be completed with a dedicated Touch front plate.



Devices can be configured for access to 4 different types of rooms:

- **GUEST ROOMS:** enable access to all enabled client cards, and to service cards in certain conditions (e.g., the chambermaid's card only works if the room is vacant).
- **SERVICE ROOMS:** enable access to hotel cards that belong to service personnel but not to clients.
- **COMMON AREAS:** enable access to all the cards of service personnel and of enabled clients.
- **SCALED ACCESS:** enable access to the cards of the enabled service personnel. In order to gain access, client cards must have sufficient residual credit, consisting of a number of accesses. With each access the device updates the card by removing one credit. (can be used in Stand Alone mode)

Technical details

• Module:	3 S44 modules (67.5 w x 45 h x 55.5 d) mm
• Max. protrusion above the components:	9 mm (plate line level) for Domus Touch and Life Touch series; while AveTouch cod. 442GA02-M is hidden under the plate surface.
• Protection degree:	IP40 if completed with front plate and installed in the corresponding flush-mounted frame.
• Reference Temp. and Rel. Humidity:	25°C RH 65%
• Temperature range Operating environment:	from 0°C to +40°C
• Maximum Relative Humidity:	90% at 35°C
• Max. Height:	2000 m a.s.l.
• Power supply:	- Rated voltage: 12Vdc ±25% - Absorption in stand-by (at +12Vdc): 80 mA. - Maximum absorption (at +12Vdc): 150mA.

Connections

• Terminal A:	"A" RS-485
• Terminal B:	"B" RS-485
• Terminal -:	GND System power 12Vdc (Common inputs)
• Terminal +:	Positive 12Vdc power supply
• Terminal 1:	Room Status Input
• Terminal 2:	Courtesy light input
• Terminal 3 and 4:	Courtesy light output
• Terminal 5:	Common for terminals 6, 7 and 8
• Terminal 5 and 6:	Electric lock output
• Terminal 5 and 7:	Bell consent output
• Terminal 5 and 8:	Guest Present Output

Characteristics of controllable electric load

• Ohmic load (cosφ 1):	5A at 250Vac	WARNING:
• Inductive load (cosφ 0.4):	3A at 250Vac	Not suitable to control LED lights



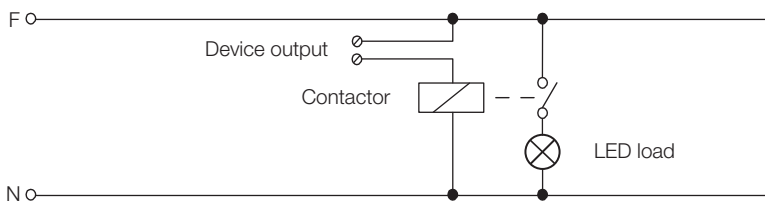
441GA01-M

□ 441GA01-M ■ 445GA01-M ■ 449GA01-M
External Reader for Hotel Management - Domus - Tekla - Class series - 3 modules. Device suitable both for operation in Stand-Alone mode and for Supervised mode "On Line".

■ 442GA01-M ■ 443GA01-M
As above - Life series - Allumia - 3 modules

Note: devices with MIFARE technology (cod. 44...GA01-M and cod. 44...GA30-M) cannot be combined with plates that have CROMO (CR) frames and with metal plates

TECHNICAL INFORMATION

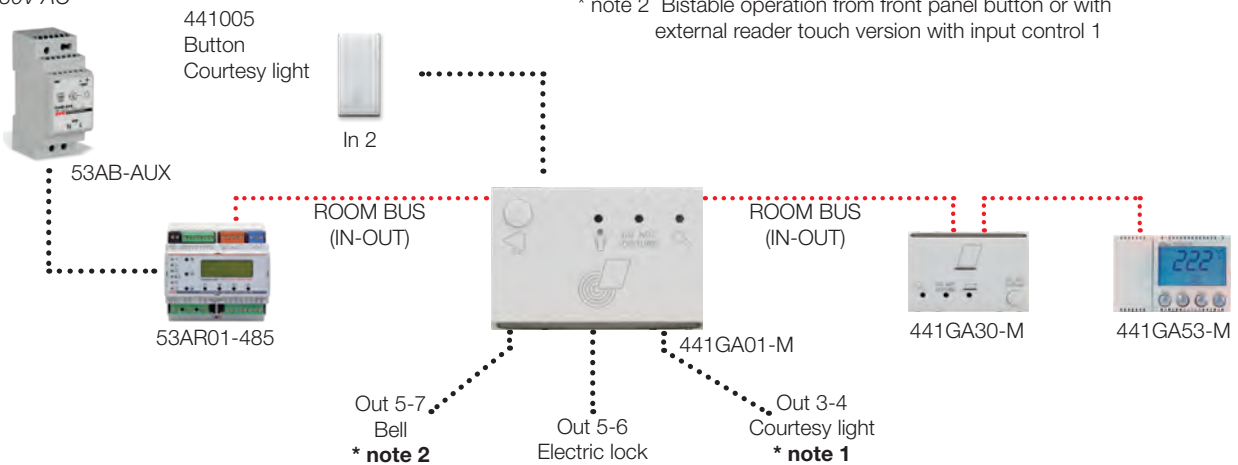


Note: If LED lights are used, an appropriate remote control switch must be installed between the output of the device and the load.

FUNCTIONAL DIAGRAM

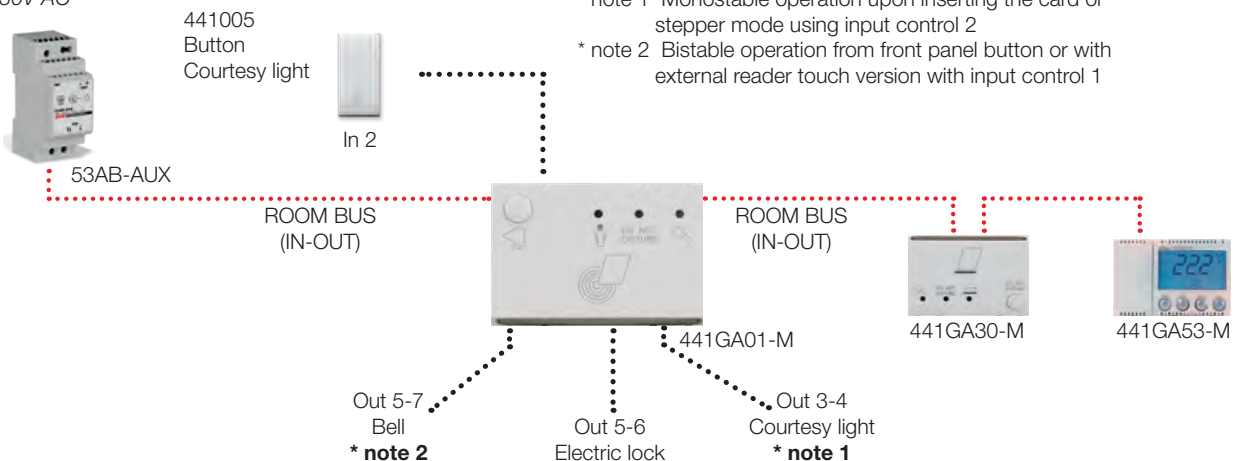
ONLINE MODE

230V AC



STAND ALONE MODE

230V AC





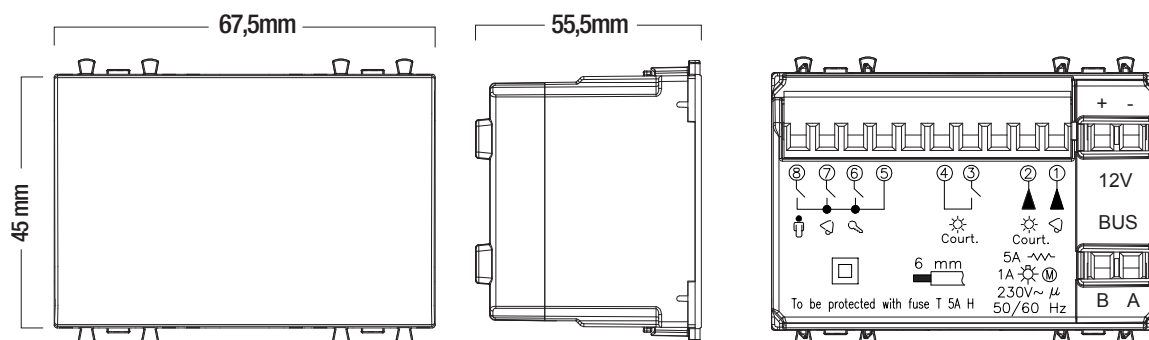
TECHNICAL CATALOGUE

System Peripherals

EXTERNAL READER ARMbus TOUCH VERSION – cod. 442GA02-M

144

The device cod. 442GA02-M is an external reader in Touch version with MIFARE® technology that allows access control to the rooms and to other areas of the hotel. It is able to operate in both Stand Alone and Online mode, depending on how it is configured and installed. MIFARE® technology allows to generate cards with a higher security standard that can also be integrated with advanced services (such as the possibility of integrating the cards provided by AVE with payment services provided by other companies) with top of the range reading performance. The device must be completed with a dedicated Touch front plate.



The device can be configured for access to 4 different types of rooms:

- **GUEST ROOMS:** enable access to all enabled client cards, and to service cards in certain conditions (e.g., the chambermaid's card only works if the room is vacant).
- **SERVICE ROOMS:** enable access to hotel cards that belong to service personnel but not to clients.
- **COMMON AREAS:** enable access to all the cards of service personnel and of enabled clients.
- **SCALED ACCESS:** enable access to the cards of the enabled service personnel. In order to gain access, client cards must have sufficient residual credit, consisting of a number of accesses. With each access the device updates the card by removing one credit. (can be used in Stand Alone mode)

Technical details

• Module:	3 S44 modules (67.5 w x 45 h x 55.5 d) mm
• Max. protrusion above the components:	9 mm (plate line level) for Domus Touch and Life Touch series; while the AveTouch cod. 442GA02-M is hidden under the plate surface.
• Protection degree:	IP40 if completed with front plate and installed in the corresponding flush-mounted frame.
• Reference Temp. and Rel. Humidity:	25°C RH 65%
• Temperature range Operating environment:	from 0°C to +40°C
• Maximum Relative Humidity:	90% at 35°C
• Max. Height:	2000 m a.s.l.
• Power supply	- Rated voltage: 12Vdc ±25% - Absorption in stand-by (at +12Vdc): 80 mA. - Maximum absorption (at +12Vdc): 150mA.

Connections

• Terminal A:	"A" RS-485
• Terminal B:	"B" RS-485
• Terminal -:	GND System power 12Vdc (Common inputs)
• Terminal +:	Positive 12Vdc power supply
• Terminal 1:	Bell Button Input
• Terminal 2:	Courtesy light input
• Terminal 3 and 4:	Courtesy light output
• Terminal 5:	Common for terminals 6, 7 and 8
• Terminal 5 and 6:	Electric lock output
• Terminal 5 and 7:	Bell consent output
• Terminal 5 and 8:	Guest Present Output

Characteristics of controllable electric load

• Ohmic load (cosφ1):	5A at 250Vac	WARNING:
• Inductive load (cosφ 0.4):	3A at 250Vac	Not suitable to control LED lights



442GA02-M

442GA02-M

External Reader for Hotel Management - AVE Touch - 3 modules. Device suitable both for operation in Stand-Alone mode and for Supervised mode "On Line".

Note: devices with MIFARE technology (cod. 44...GA01-M and cod. 44...GA30-M) cannot be combined with plates that have CROMO (CR) frames and with metal plates

HOME AUTOMATION

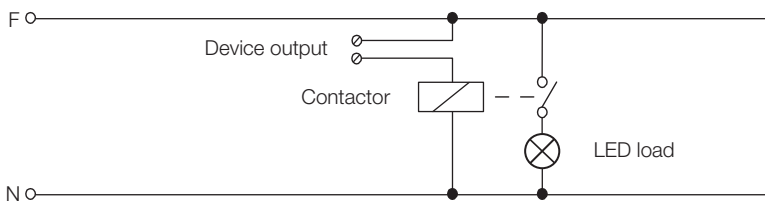
HOTEL MANAGEMENT

VIDEO INTERCOM

ANTI INTRUSION

WIRING DIAGRAMS AND PRESCRIPTIONS

TECHNICAL INFORMATION

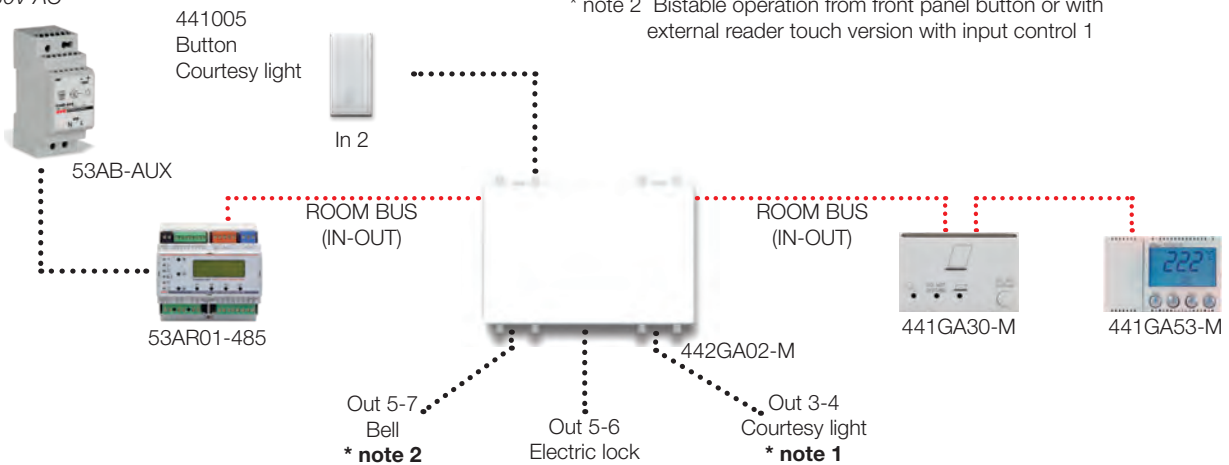


Note: If LED lights are used, an appropriate remote control switch must be installed between the output of the device and the load.

FUNCTIONAL DIAGRAM

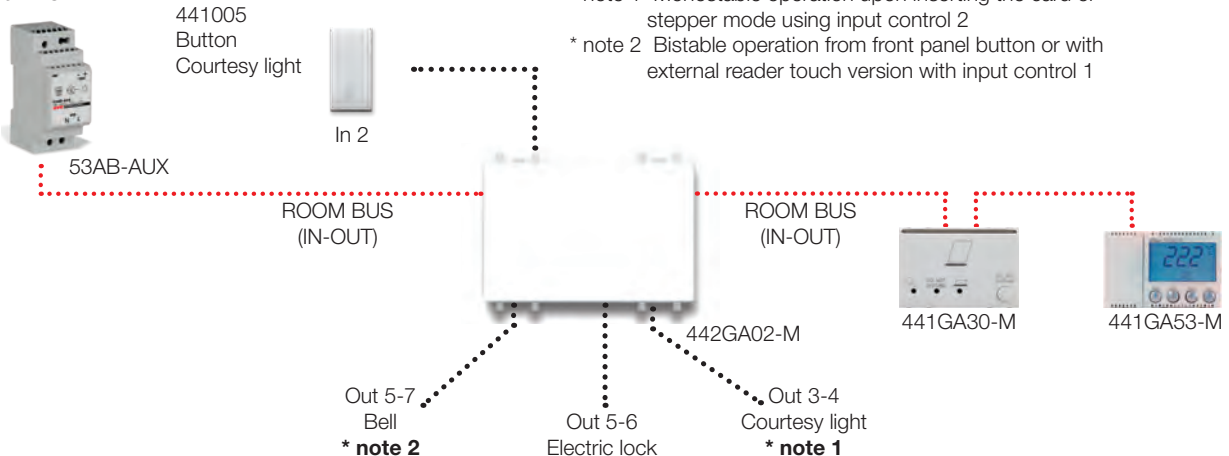
ONLINE MODE

230V AC



STAND ALONE MODE

230V AC





TECHNICAL CATALOGUE

System Peripherals

"AVE TOUCH" GLASS FRONT PLATES



44PVT33GA-NAL



44PVT33GA-NAL



44PVT76GA-NAL

□ 44PVT33GA-BL
Clear White - 3 modules

■ 44PVT33GA-NAL
Clear absolute black - 3 modules

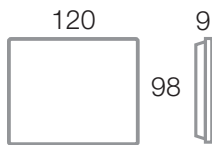
□ 44PVT33GA-BL
Clear White glass - 6(3+3) modules

■ 44PVT33GA-NAL
Clear absolute black glass - 6(3+3) modules

□ 44PVT76GA-BL
Clear White glass - 6(3+3) modules

■ 44PVT76GA-NAL
Clear White glass - 6(3+3) modules

44PVT33GA-..



To be used with



44A03

Available Boxes

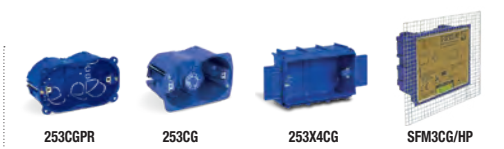


2503MG

253X4

SFM3/HP

Brickwork Walls



253CGPR

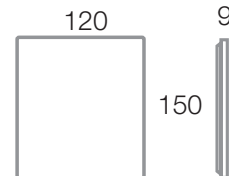
253CG

253X4CG

SFM3CG/HP

Hollow Walls

44PVT33GA-..



To be used with



44A33

Available Boxes



BL02P

Brickwork Walls



BL02CG

Hollow Walls

“AVE TOUCH” ALUMINIUM FRONT PLATES



44PATC3GA-ALS



44PATC33GA-ALS



44PATC76GA-ALS

■ **44PATC3GA-ALS**

Natural brushed aluminium - for access control 442GA02-M - 3 modules

■ **44PATC3GA-ANS**

Anthracite brushed aluminium- for access control 442GA02-M - 3 modules

■ **44PATC33GA-ALS**

Natural brushed aluminium - with call push-button - for access control 442GA02M - 6 (3+3) modules

■ **44PATC33GA-ANS**

Anthracite brushed aluminium - with call push-button - for access control 442GA02M - 6 (3+3) modules

■ **44PATC76GA-ALS**

Natural brushed aluminium - for access control 442GA02-M - 6(3+3) modules

■ **44PATC76GA-ANS**

Anthracite brushed aluminium- for access control 442GA02-M - 6(3+3) modules

HOME AUTOMATION

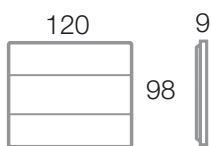
HOTEL MANAGEMENT

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ANTI INTRUSION

WIRING DIAGRAMS AND PRESCRIPTIONS

44PATC3GA-..



To be used with



44A03

Available Boxes

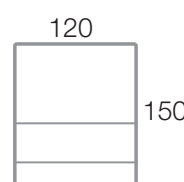


Brichwork Walls



Hollow Walls

44PATC33GA-..



To be used with



44A33

Available Boxes



Brichwork Walls

Hollow Walls



TECHNICAL CATALOGUE

System Peripherals

CUSTOMIZABLE FRONT PLATES CONFIGURATOR

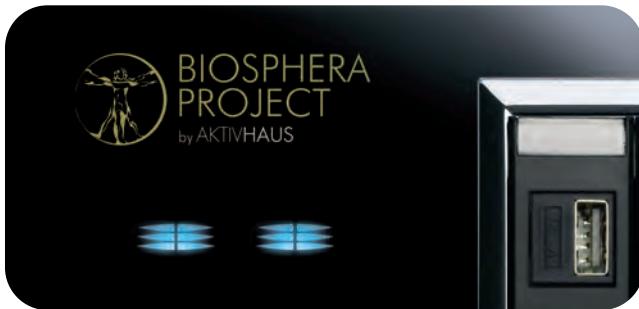
The customization system allows:

- Material selection
 - Type and dimensions selection
 - Colours choice
 - Loading of customizable images
-
- Your basket always available
 - Sending the request by email
 - Digital print, laser engraving
 - and much more



visit the website
<https://avexclusive.ave.it>

Customization techniques

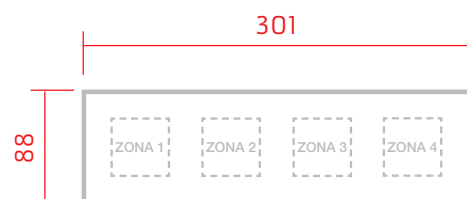
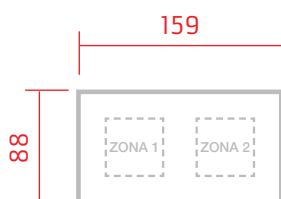
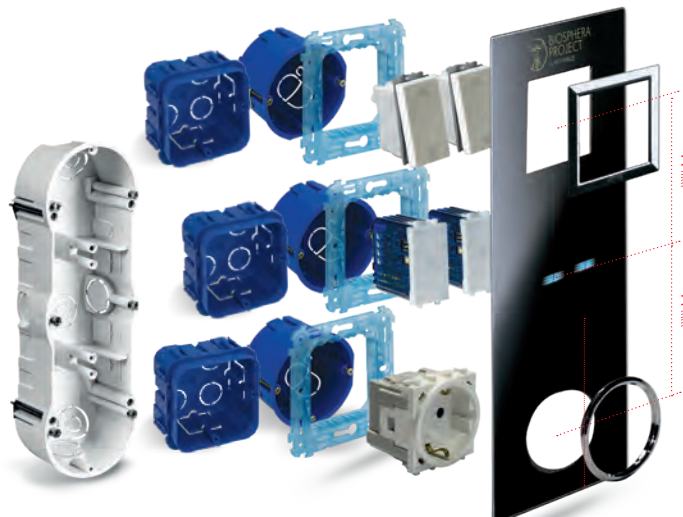


CUSTOMIZABLE MULTI-MODULE FRONT PLATES



AVE Patent n° 247

These plates have been conceived and designed to offer maximum versatility. Depending on the needs and available spaces, AVE allows you to choose the format, orientation, color and functions to be included in the device. For example, at the head of the bed we can have commands for the reading light and the bedroom light, a socket for recharging the laptop and a USB socket for the smartphone, all completed with the plate that best suits the style of the room.



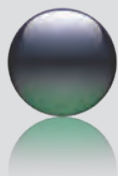
HOME AUTOMATION

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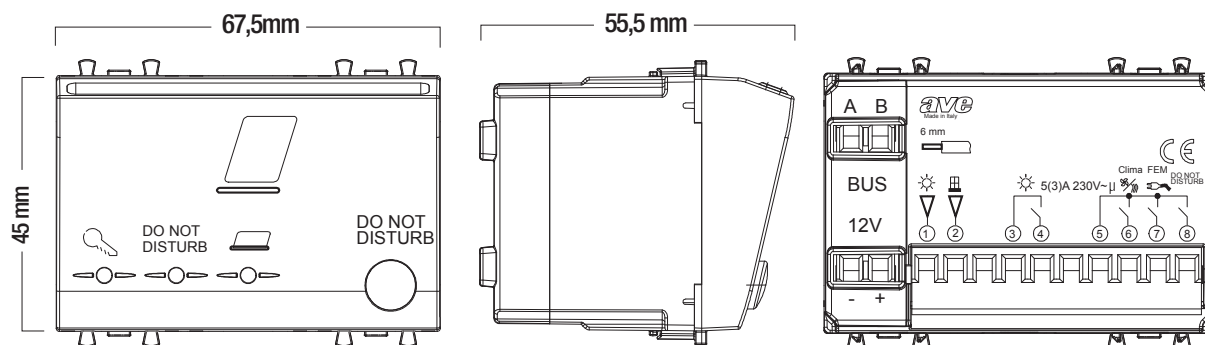


TECHNICAL CATALOGUE

System Peripherals

INTERNAL READER ARMBus - cod. 44..GA30-M

The device cod. 44..GA30-M is a reader with card holder designed to be installed inside the room to allow the activation of room loads and services only when an enabled card is used. It can operate in both Stand Alone and Online mode, depending on how it is configured and installed. MIFARE® technology allows to generate cards with the highest security standards that can also be integrated with other advanced services (such as the possibility of integrating cards provided by AVE with payment services provided by other companies) with a top of the range reading performance. The reader has two inputs to determine the status of volt free contacts, which control the “Room Light” and “Air Conditioning Consent” output, respectively. There are also four volt free relay contacts to control “Room Light”, “Air Conditioning Consent”, “EMF line control” and “Do not disturb” indications.



Devices can be configured to detect presence in 4 different types of rooms:

- **GUEST ROOMS:** enable the presence of all enabled client cards and of all service cards.
- **SERVICE ROOMS:** enable the presence of hotel cards that belong to service personnel but not to clients.
- **COMMON AREAS:** enable presence of all the service personnel cards and of enabled client cards.
- **AREAS BY PAYMENT:** enable presence of the cards of service personnel and of enabled client cards. To activate the presence, the cards must have sufficient residual credit (number of accesses). At the start of each presence in the room the device updates the card by removing one credit.

Technical details

• Module:	3 S44 modules (67.5 w x 45 h x 55.5 d) mm
• Max. protrusion above the components:	9 mm (above the plate)
• Protection degree:	IP40 if completed with front plate and installed in the corresponding flush-mounted frame.
• Reference Temp. and Rel. Humidity:	25°C RH 65%
• Temperature range Operating environment:	from 0°C to +40°C
• Maximum Relative Humidity:	90% at 35°C
• Max. Height:	2000 m a.s.l.
• Power supply	- Rated voltage: 12Vdc ±25% - Absorption in stand-by (at +12Vdc): 80 mA. - Maximum absorption (at +12Vdc): 150mA.

Connections

• Terminal A:	“A” RS-485
• Terminal B:	“B” RS-485
• Terminal -:	GND System power 12Vdc (Common inputs)
• Terminal +:	Positive 12Vdc power supply
• Terminal 1:	Input Room Light
• Terminal 2:	Window Contact Input
• Terminal 3 and 4:	Room Light Output
• Terminal 5:	Common for terminals 6, 7 and 8
• Terminal 5 and 6:	Climate Consent Output
• Terminal 5 and 7:	Load Control Output (EMF)
• Terminal 5 and 8:	DO NOT DISTURB Output

Characteristics of controllable electric load

• Ohmic load (cosφ 1):	5A at 250Vac	WARNING:
• Inductive load (cosφ 0.4):	3A at 250Vac	Not suitable to control LED lights



441GA30-M

□ **441GA30-M** ■ **445GA30-M** ■ **449GA30-M**
Internal Reader for Hotel Management - Domus - Tekla - Class series - 3 modules
Device suitable both for operation in Stand-Alone mode and for Supervised mode "On Line".

■ **442GA30-M** ■ **443GA30-M**
As above - Life series - Allumia - 3 modules.

Note: devices with MIFARE technology (cod. 44...GA01-M and cod. 44...GA30-M) cannot be combined with plates that have CROMO (CR) frames and with metal plates

HOME AUTOMATION

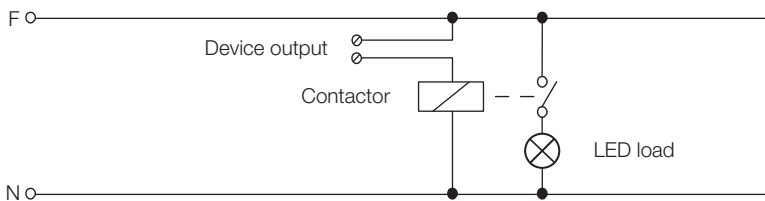
HOTEL MANAGEMENT

VIDEO INTERCOM

ANTI INTRUSION

WIRING DIAGRAMS AND PRESCRIPTIONS

TECHNICAL INFORMATION

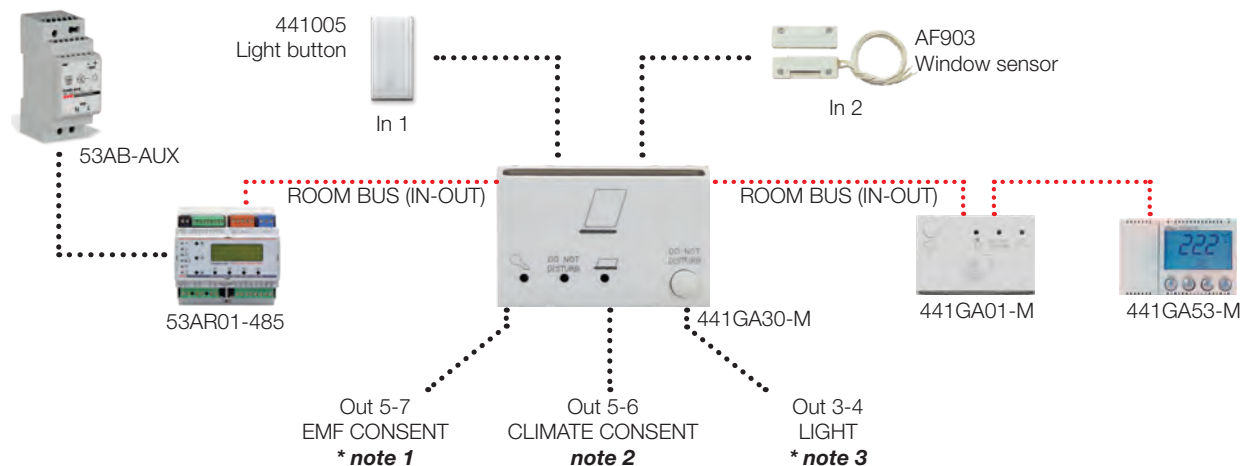


Note: If LED lights are used, an appropriate remote control switch must be installed between the output of the device and the load.

FUNCTIONAL DIAGRAM

ONLINE MODE

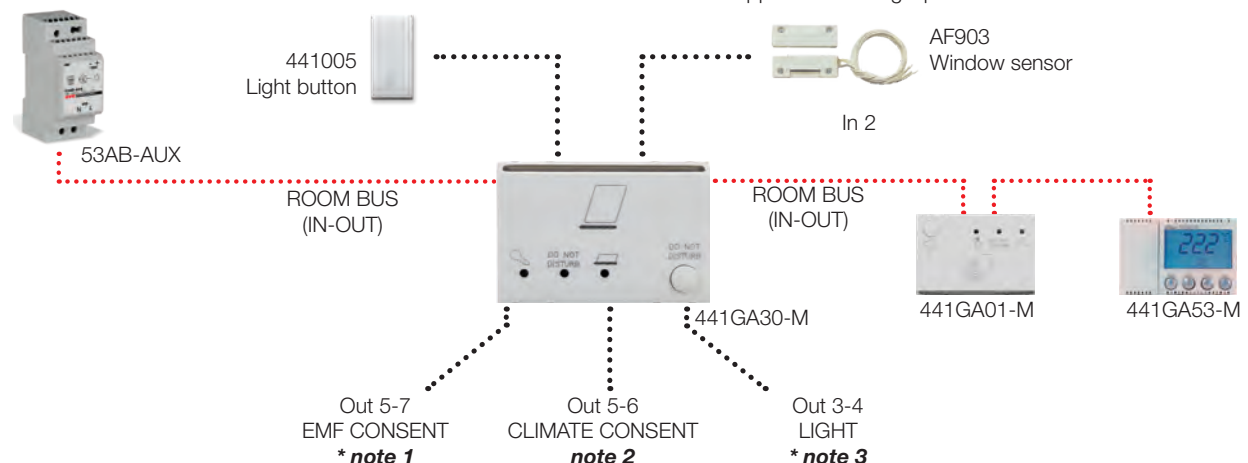
230V AC



* note 1 Monostable operation upon inserting the card
* note 2 Bistable operation from window sensor
* nota 3 Stepper mode using input control 1

STAND ALONE MODE

230V AC



* note 1 Monostable operation upon inserting the card
* note 2 Bistable operation from window sensor
* nota 3 Stepper mode using input control 1

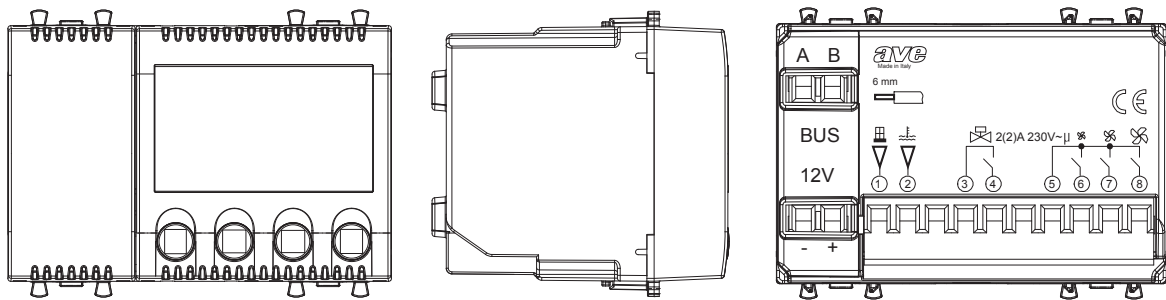


TECHNICAL CATALOGUE

System Peripherals

AMBIENT THERMOSTAT – cod. 44..GA53-M

The device cod. 44..GA53-M is a thermostat to measure ambient temperature and to control the temperature of a hotel room or of other rooms in general. It is able to manage its outputs and inputs independently, and can also communicate with other devices, such as room control unit, external reader and internal reader. It can operate both in Stand Alone and Online mode according to the setting and installation. The device is provided with two auxiliary analogue inputs (+5Vdc) to detect resistive values (room/window and temperature/water status) and four volt free relay outputs to control the solenoid valve and fan coil speed.



Technical details

• Module:	3 S44 modules (67.5 w x 45 h x 55.5 d) mm
• Max. protrusion above the components:	6.5 mm (above the plate)
• Protection degree:	IP40 if completed with front plate and installed in the corresponding flush-mounted frame.
• Reference Temp. and Rel. Humidity:	25°C RH 65%
• Temperature range Operating environment:	from 0°C to +40°C
• Maximum Relative Humidity:	90% at 35°C
• Max. Height:	2000 m a.s.l.
• Power supply	- Rated voltage: 12Vdc \pm 25% - Absorption in stand-by (at +12Vdc): 50mA. - Maximum absorption (at +12Vdc): 150mA.

Connections

• Terminal A:	"A" RS-485
• Terminal B:	"B" RS-485
• Terminal -:	GND System power 12Vdc (Common inputs)
• Terminal +:	Positive 12Vdc power supply
• Terminal 1:	Window/room status input contact
• Terminal 2:	Temperature probe input
• Terminal 3 and 4:	Solenoid Valve Output
• Terminal 5:	Common for terminals 6, 7 and 8
• Terminal 5 and 6:	Fan Coil speed 1 output
• Terminal 5 and 7:	Fan Coil speed 2 output
• Terminal 5 and 8:	Fan Coil speed 3 output

Characteristics of controllable electric load

• Ohmic load (cos ϕ 1):	5A at 250Vac
• Inductive load (cos ϕ 0.4):	3A at 250Vac

Temperature measurement

• Measurement range:	from 0°C to 40°C (Display in °C or °F)
• Regulation range:	30°C (from 5°C to 35°C)
• Reproducibility error:	0.2°C (max)
• Fidelity error:	0.3°C (max)
• Thermostat differential:	from 0.2°C to 0.2°C to 2.5°C adjustable



441GA53-M

441GA53-M **445GA53-M** **449GA53-M**
 Thermostat for Hotel Management - Domus - Tekla - Class series - 3 modules
 Device suitable both for operation in Stand-Alone mode and for Supervised mode "On Line".
 It has relay outputs for controlling the electric valve and the fan-coil speeds and by means
 of the analogue input it detects the window status and / or the presence of the guest in the
 room. Second analogue input allows the measurement of the ambient temperature of the
 second thermal zone, whose electric valve is controlled by the room control unit 53GA0x-485



441S0-NTC

442GA53-M **443GA53-M**
 As above - Life series - Allumia - 3 modules.

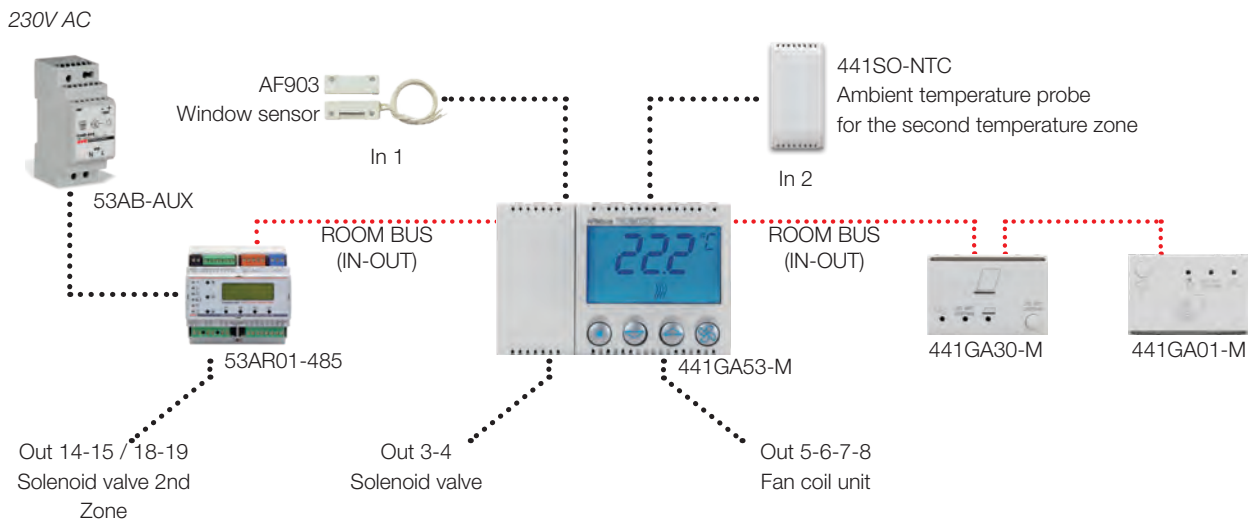
441S0-NTC **445S0-NTC** **449S0-NTC**
 Prominent front cover with built-in NTC 10K type temperature probe
 Domus - Tekla - Class - series - 1 module

442S0-NTC **443S0-NTC**
 As above - Life series - Allumia - 1 module.

FUNCTIONAL DIAGRAM

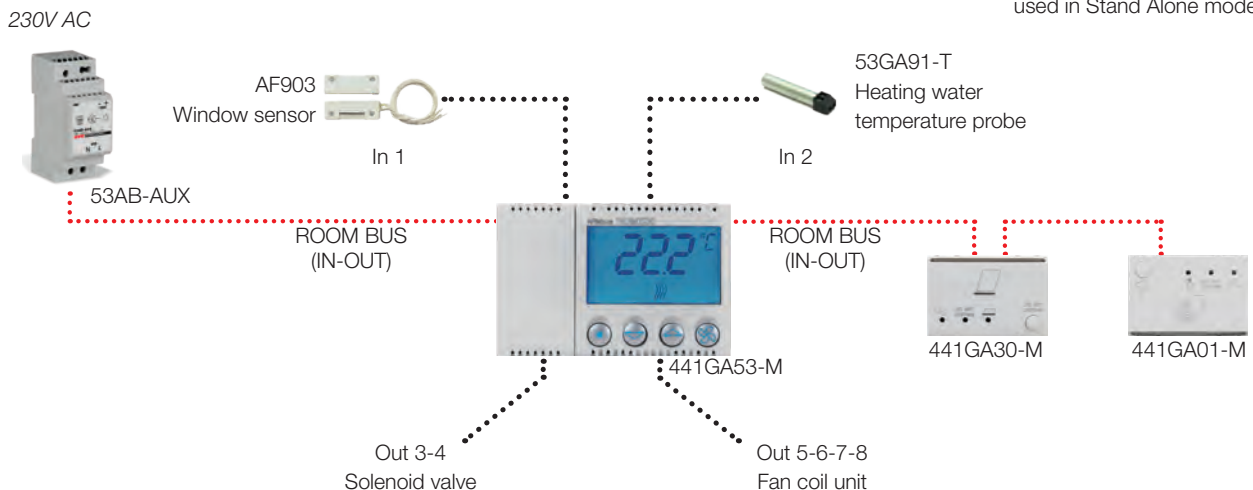
ONLINE MODE

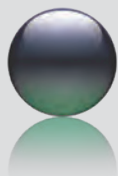
* note The dual temperature zone mode exploits the 14-15 / 18-19 output of the room control unit cod. 53AR01-485



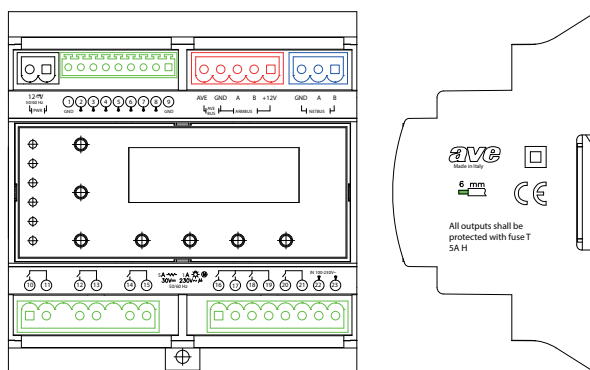
STAND ALONE MODE

* note For automatic recognition of the season, input 2 is only used in Stand Alone mode.





The device cod. 53AR01-485 is a room control unit for hotel management in Online mode. It can manage accesses (bookings/check-in/check-out), all functions related to temperature control, alarm management, transit management and all functions related to energy saving. It communicates with room devices by using two different buses: ARMBus for the connection with External / Internal readers, Thermostats; AVEbus for the connection with Residential Home Automation devices, allowing to use Control Devices and Actuators and other peripheral units. Moreover, it uses another bus (NETbus) to connect to the floor concentrator cod. AR-NET01, which is connected through the Ethernet to the supervision system's server.



Technical details

• Module:	6 DIN modules (106 w x 91h x 58.5 d) mm
• Protection degree:	IP40
• Reference Temp. and Rel. Humidity:	25°C RH 65%
• Temperature range Operating environment:	from 0°C to +40°C
• Maximum Relative Humidity:	90% at 35°C
• Max. Height:	2000 m a.s.l.
• Power supply	- Rated voltage: 12Vdc ±25% - Absorption in stand-by (at +12Vdc): 150mA. - Maximum absorption (at +12Vdc): 400mA.

Connections

• Terminal 12V:	Input not polarised for power supply
• Terminal 1:	Input reference (GND)
• Terminal 2:	Input 0-10V to connect the flood detection probe
• Terminal 3:	Input DOOR OPENER
• Terminal 4:	FIRE REPETITION input (based on the legislation in force)
• Terminal 5:	Input DO NOT DISTURB BUTTON
• Terminal 6:	Input DOOR CONTACT
• Terminal 7:	Input BATHROOM EMERGENCY BUTTON
• Terminal 8:	Input ROOM LIGHT
• Terminal 9:	Input reference (GND)
• AVE Terminal:	Positive AVEBus home automation bus
• Terminal GND:	Reference ground for AVEBus and ARMBus
• Terminal A:	Line A of the ARMBus room bus
• Terminal B:	Line B of the ARMBus room bus
• Terminal +12V:	Positive power supply of the ARMBus room bus
• Terminal GND:	Reference ground for NETbus
• Terminal A:	Line A of the NETBus supervision bus
• Terminal B:	Line B of the NETBus supervision bus
• Terminal 10 and 11:	LV (230Vac) and SELV (<50Vdc) output – ELECTRIC LOCK
• Terminal 12 and 13:	LV (230Vac) and SELV (<50Vdc) output – WATER SOLENOID VALVE
• Terminal 14 and 15:	LV (230Vac) and SELV (<50Vdc) output – DIRECT CONTROL
• Terminal 16 and 19:	LV output contact pole (230Vac) – ROOM LIGHT
• Terminal 17 and 19:	LV output contact pole (230Vac) – ALARM ACTIVE
• Terminal 18 and 19:	LV output contact pole (230Vac) – DIRECT CONTROL
• Terminal 20 and 21:	LV output (230Vac) to control the STEPPER RELAY of the room
• Terminal 22 and 23:	LV input to detect the presence of the mains supply 115/230Vac.

Characteristics of controllable electric load

• Ohmic load (cosφ1):	5A at 250Vac	WARNING:
• Inductive load (cosφ 0.4):	3A at 250Vac	Not suitable to control LED lights



53AR01-485

Room control unit for online hotel management system - 6 DIN modules

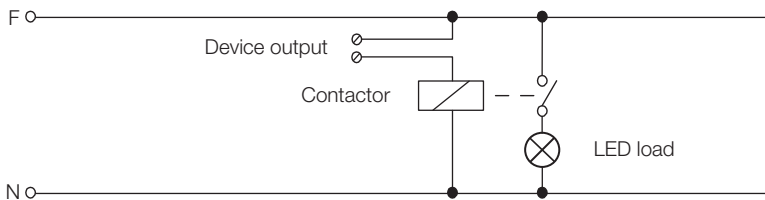
532RP-230NI

Coil 230Vac In 16A power circuit 250Vac 2NO - 1 DIN mod.

53AR01-485

532RP-230NI

TECHNICAL INFORMATION



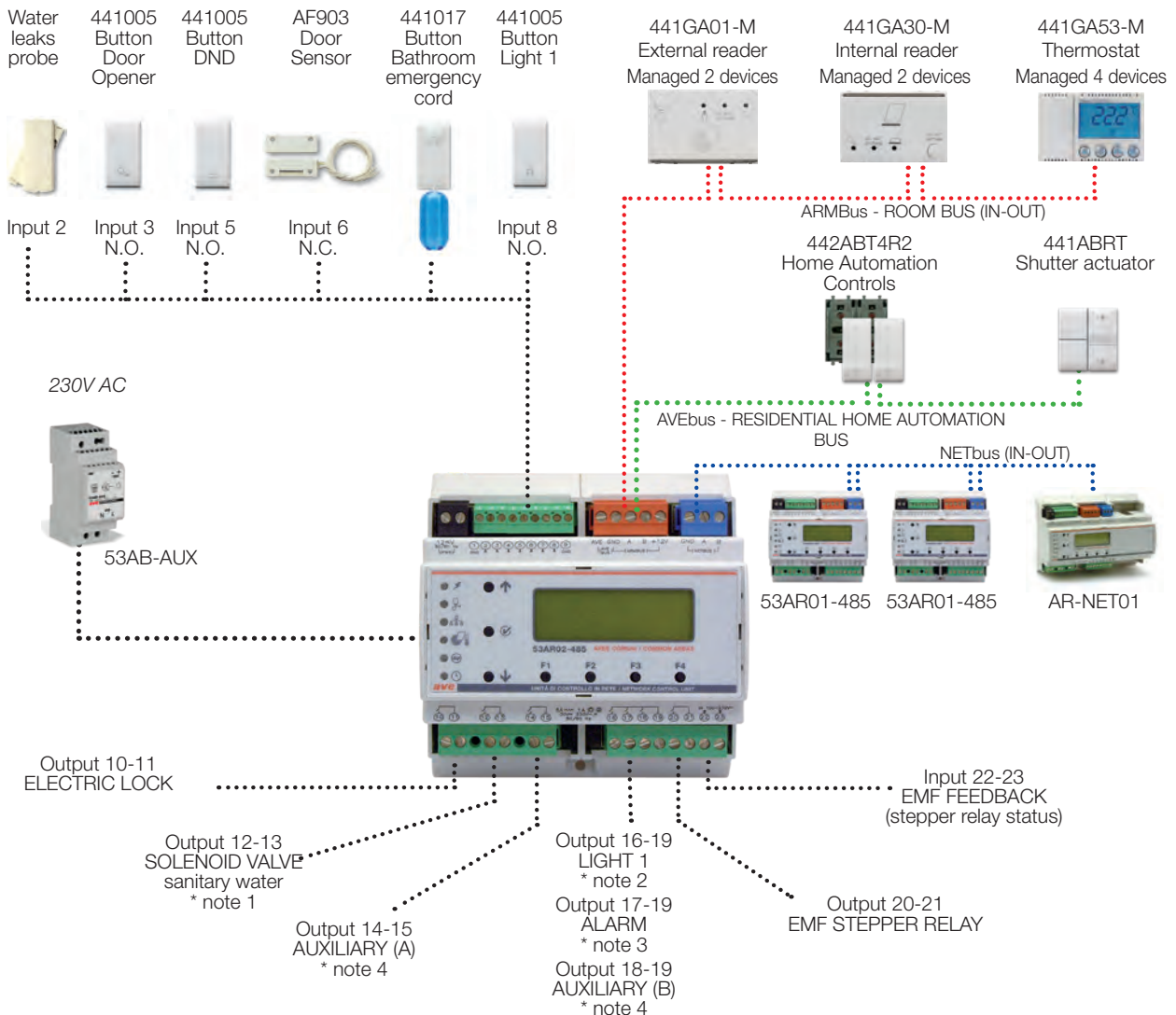
Note: If LED lights are used, an appropriate remote control switch must be installed between the output of the device and the load.

FUNCTIONAL DIAGRAM - ONLINE

ONLINE MODE

- * note 1 If a water leak is detected, the solenoid valve is (reset from PC)
- * note 2 Stepper operation connected with input 8

- * note 3 Bistable operation connected with input 7 cut off
- * note 4 Bistable operation connected with PC control signal



HOME AUTOMATION

HOTEL MANAGEMENT

VIDEO INTERCOM

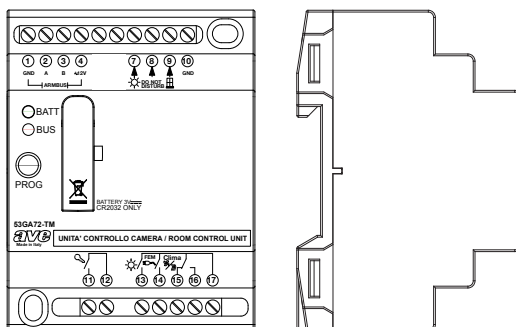
ANTI INTRUSION

WIRING DIAGRAMS AND PRESCRIPTIONS



The device cod. 53GA72-TM is a room control unit that completes the stand alone hotel range. It is able to manage its outputs and inputs independently, and can also communicate with the various slave devices of the same hotel series (external reader, internal reader and ambient thermostat). The room control unit has four auxiliary inputs to determine the status of volt free contacts and of four relay outputs. It also has an internal clock with lithium buffer battery, which makes it possible to completely manage a clock/calendar that might be required if you wish to use the card expiry function and/or nighttime saving function of the thermostat.

The control unit cod. 53GA72-TM memorises and makes available the last 50 door opening operations (date/time and unique card number), which can be “downloaded” using the SCR-ALBM1 programmer and stand alone SFW-ALB04 software.



Technical details

- Module: 4 DIN modules (69.5 w x 89.5 h x 65 d) mm
- Protection degree: IP40
- Reference Temp. and Rel. Humidity: 25°C RH 65%
- Temperature range Operating environment: from 0°C to +40°C
- Maximum Relative Humidity: 90% at 35°C
- Max. Height: 2000 m a.s.l.
- Power supply:
 - Rated voltage: 12Vdc ±25%
 - Absorption in stand-by (at +12Vdc): 75mA.
 - Maximum absorption (at +12Vdc): 200mA.

Connections

• Terminal 1:	GND System power 12Vdc (Common inputs)
• Terminal 2:	“A” RS-485
• Terminal 3:	“B” RS-485
• Terminal 4:	Positive 12Vdc power supply
• Terminal 7:	Input Room Light
• Terminal 8:	DO NOT DISTURB input
• Terminal 9:	Climate 2 consent input
• Terminal 10:	GND Common for terminals 7, 8 and 9
• Terminal 11 and 12:	Electric Lock Control Output
• Terminal 13 and 17:	Room Light Control Output
• Terminal 14 and 17:	Load Control Output (EMF)
• Terminal 15 and 17:	Climate Enabling Control Output - contact NC
• Terminal 16 and 17:	Climate Enabling Control Output - contact NO
• Terminal 17:	Common for terminals 13,14,15 and 16

Characteristics of controllable electric load

• Ohmic load (cosφ 1):	5A at 250Vac	WARNING:
• Inductive load (cosφ 0.4):	3A at 250Vac	Not suitable to control LED lights

Description of the front

On the front there are two optical indicators of device function and status:

- Green LED (BATT): ON, power supply of the device. If it flashes this means the battery needs replacing or is missing.
- Red LED (BUS): ON, room bus communication.



53GA72-TM



53AB-AUX

53GA72-TM

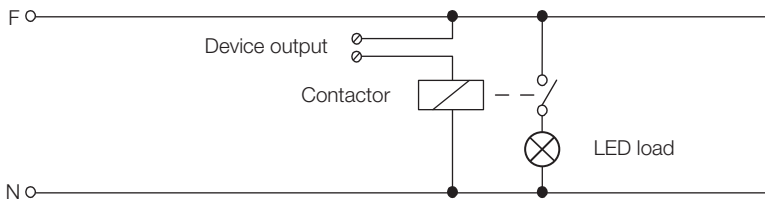
Room control unit for stand-alone 125 kHz/MIFARE systems - 4 DIN modules

53AB-AUX

Power supply with turnable output voltage with trimmer (12 to 14Vdc).

Max current: 1 A - 2 DIN mod.

TECHNICAL INFORMATION

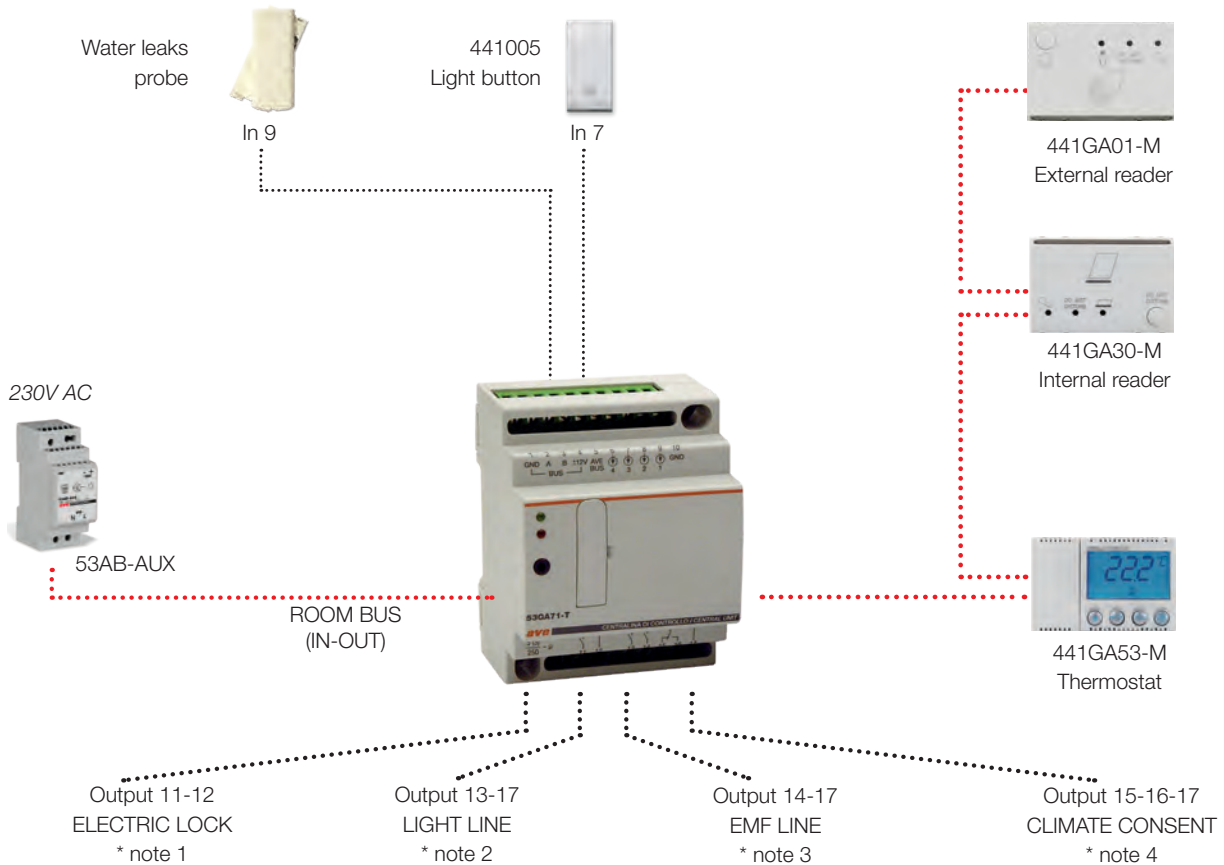


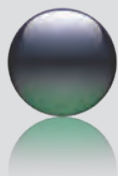
Note: If LED lights are used, an appropriate remote control switch must be installed between the output of the device and the load.

FUNCTIONAL DIAGRAM

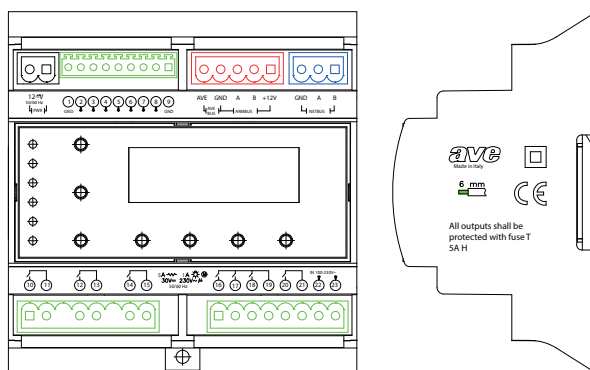
STAND ALONE MODE

- * note 1 Replicates the output of the external reader
- * note 2 Bistable operation using input control 7
- * note 3 Active with the card inserted in the internal reader (connect the accessory remote control switch)
- * note 4 Automatic operation connected with the consent of input 9





The device cod. 53AR01-485 is a common areas control unit for hotel management in Online mode. It can manage accesses (bookings/check-in/check-out), all functions related to temperature control, alarm management, transit management and all functions related to energy saving. It communicates with devices by using two different buses: ARMBus for the connection with External / Internal readers, Thermostats; AVEbus for the connection with Residential Home Automation devices, allowing to use Control Devices and Actuators and other peripheral units. Moreover, it uses another bus (NETbus) to connect to the floor concentrator cod. AR-NET01, which is connected through the Ethernet to the supervision system's server.



Technical details

• Module:	6 DIN modules (106 w x 91h x 58.5 d) mm
• Protection degree:	IP40
• Reference Temp. and Rel. Humidity:	25°C RH 65%
• Temperature range Operating environment:	from 0°C to +40°C
• Maximum Relative Humidity:	90% at 35°C
• Max. Height:	2000 m a.s.l.
• Power supply	- Rated voltage: 12Vdc ±25% - Absorption in stand-by (at +12Vdc): 150mA. - Maximum absorption (at +12Vdc): 400mA.

Connections

• Terminal 12V:	Input not polarised for power supply
• Terminal 1:	Input reference (GND)
• Terminal 2:	Input 0-10V to connect the flood detection probe
• Terminal 3:	Input DOOR OPENER
• Terminal 4:	FIRE REPETITION input (based on the legislation in force)
• Terminal 5:	Input DO NOT DISTURB BUTTON
• Terminal 6:	Input DOOR CONTACT
• Terminal 7:	Input BATHROOM EMERGENCY BUTTON
• Terminal 8:	Input ROOM LIGHT
• Terminal 9:	Input reference (GND)
• AVE Terminal:	Positive AVEBus home automation bus
• Terminal GND:	Reference ground for AVEBus and ARMBus
• Terminal A:	Line A of the ARMBus room bus
• Terminal B:	Line B of the ARMBus room bus
• Terminal +12V:	Positive power supply of the ARMBus room bus
• Terminal GND:	Reference ground for NETbus
• Terminal A:	Line A of the NETBus supervision bus
• Terminal B:	Line B of the NETBus supervision bus
• Terminal 10 and 11:	LV (230Vac) and SELV (<50Vdc) output – ELECTRIC LOCK
• Terminal 12 and 13:	LV (230Vac) and SELV (<50Vdc) output – WATER SOLENOID VALVE
• Terminal 14 and 15:	LV (230Vac) and SELV (<50Vdc) output – DIRECT CONTROL
• Terminal 16 and 19:	LV output contact pole (230Vac) – ROOM LIGHT
• Terminal 17 and 19:	LV output contact pole (230Vac) – ALARM ACTIVE
• Terminal 18 and 19:	LV output contact pole (230Vac) – DIRECT CONTROL
• Terminal 20 and 21:	LV output (230Vac) to control the STEPPER RELAY of the room
• Terminal 22 and 23:	LV input to detect the presence of the mains supply 115/230Vac.

Characteristics of controllable electric load

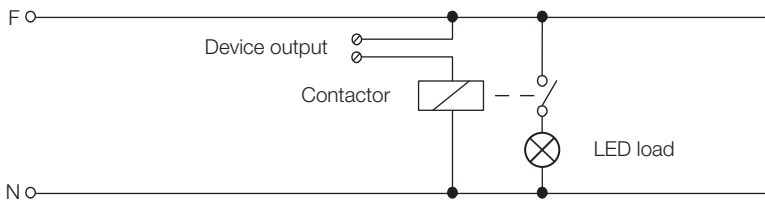
• Ohmic load (cosφ 1):	5A at 250Vac	WARNING: Not suitable to control LED lights
• Inductive load (cosφ 0.4):	3A at 250Vac	



53AR02-485
Common area control unit for online hotel management system - 6 DIN modules

53AR02-485

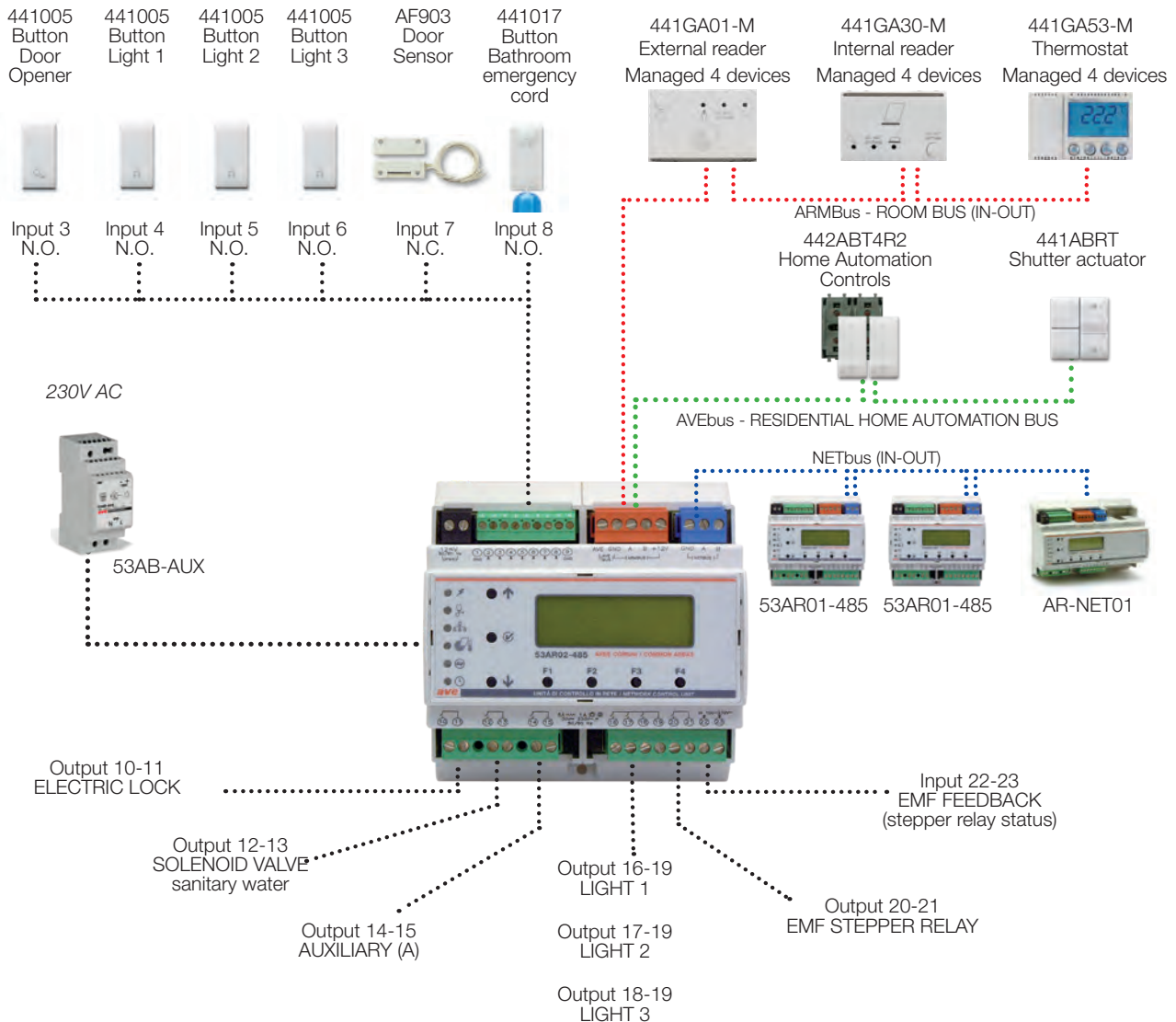
TECHNICAL INFORMATION



Note: If LED lights are used, an appropriate remote control switch must be installed between the output of the device and the load.

FUNCTIONAL DIAGRAM - ONLINE

ONLINE MODE





TECHNICAL CATALOGUE

System Peripherals

ONLINE INTERFACE UNIT and SOFTWARE - cod. AR-NET01 and SFW-ALB0..

The device cod. AR-NET01 is a network interface between the NETbus backbone and the Ethernet network. It allows to link up various control units of the room and of common areas to the Server of the facility where the hotel management system's supervision software is installed.

Technical details

• Module:	9 DIN modules (159 w x 91h x 58.5 d) mm
• Protection degree:	IP40
• Reference Temp. and Rel. Humidity:	25°C RH 65%
• Temperature range Operating environment:	from 0°C to +40°C
• Maximum Relative Humidity:	90% at 35°C
• Max. Height:	2000 m a.s.l.
• Power supply	- Rated voltage: 12Vdc \pm 25% - Absorption in stand-by (at +12Vdc): 150mA. - Maximum absorption (at +12Vdc): 400mA.

Connections

• Terminal 12V:	Input not polarised for power supply
• Terminal GND:	Reference ground for NETbus
• Terminal A:	Line A of the NETBus supervision bus
• Terminal B:	Line B of the NETBus supervision bus
• Terminal B:	Line B of the NETBus supervision bus
• Terminal ETH:	Network connector RJ45

SFW-ALB05 /06 /07

The AVE hotel management software has been designed to ensure supervision and total control in real time of hotels in which the Domina Hotel online range is installed. The pages in which you navigate have been reduced to a minimum to make the software simpler and faster to use. This means that even new recruits require only a minimum of training and will be operative in a very short time. AVE software for Domina Hotel keeps everything always under control.

Room monitoring is represented with a card that has different colours in the side band to inform you of the room status (occupied, free, booked). The icons inside the card provide detailed information. All the essential information on the room status is provided without having to navigate through various pages. The transition from one floor to another is implemented via a simple navigation bar on the right. On the page dedicated to each room you can control each single component connected with the hotel network and check if it is working properly. Each function parameter can be modified by qualified personnel, from the temperature of the heating/cooling system to the status of the lights and shutters.

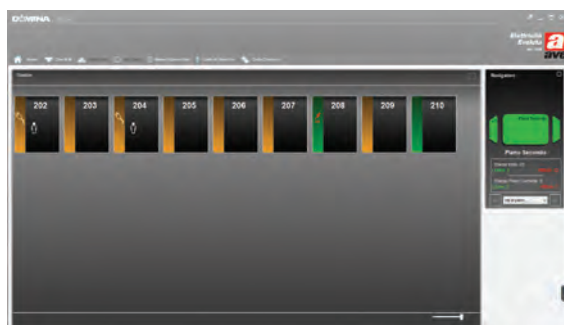
The software versions have been dimensioned for various hotel requirements:

- SFW-ALB05, for small hotels;
- SFW-ALB06, for medium hotels;
- SFW-ALB07, for large hotels;

Minimum Server requisites

The minimum installation requisites for the application:

Windows 10 (edition with 32 or 64 bit); 4 GB RAM; 100 MB free memory on HDD; Graphics card with minimum resolution 1024x768 24bit (monitor 4:3); Graphics card with minimum resolution 1280x768 24bit (monitor 16:9); Network card 10/100 base-T; USB Port 2.0 and Reader CD/DVD ROM. Internet connection for remote assistance.





AR-NET01

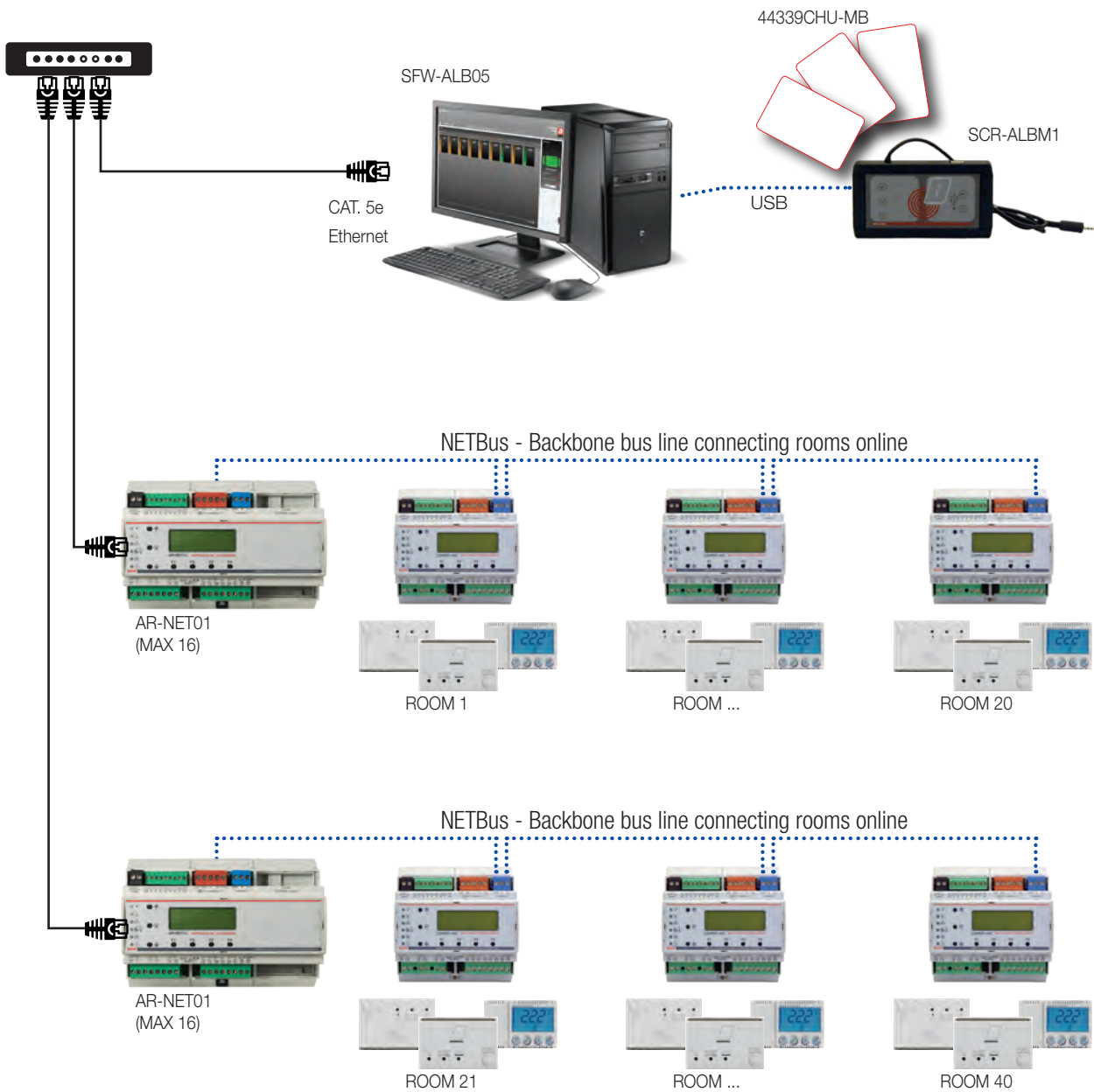
AR-NET01
Interface for online hotel management - 9 DIN modules

SFW-ALB05
Software for on line hotel management system (20 rooms licence)

SFW-ALB06
Software for on line hotel management system (50 rooms licence)

SFW-ALB07
Software for on line hotel management system (>50 rooms licence)

FUNCTIONAL DIAGRAM





TECHNICAL CATALOGUE

System Peripherals

CARD PROGRAMMER, CARD, BUS CABLE

The device cod. SCR-ALBM1 is a MIFARE® card programmer that can communicate with the devices of the hotel series. It is provided with a USB interface (compatible with USB 1.1 and 2.0 specifications) for direct interfacing with a PC to programme the cards and/or all the devices of the MIFARE® hotel management system.

The device is used both in Stand Alone mode, whose card programming software is provided, and in the Online mode combined with the software cod. SFW-ALB05 or higher.

Electrical details

• System power voltage (DC):	+5Vdc ±10% self-powered through USB port
• Absorption in stand-by (at +5Vdc):	≤ 50mA
• Maximum absorption (at +5Vdc):	≤ 100mA
• USB interface compatibility:	USB 1.1/2.0

Weather conditions

• Reference temperature and relative humidity:	25°C RH 65%
• Operating temperature range:	0°C - +40°C
• Maximum Relative Humidity:	90% at +35°C
• Maximum Height:	2000 m a.s.l.

Mechanical details

• Module:	123 w x 30 h x 68 d mm
• Material:	ABS (UL 94 HB)
• Colour:	Black (Ral 9005)
• Protection degree:	IP40
• PC Interface:	USB 1.1/2.0 (Type B connector)

Operating modes

The SCR-ALBM1 card transponder programmer can be used simply as a device to programme cards used for MIFARE®hotel management, either as stand-alone or online, or, together with an additional software (for technicians and/or installers), as a programmer for all the modules created for hotel management. In fact, it can be used to update the management firmware and/or to edit the configuration parameters (resident in EEPROM) of the various devices of the MIFARE®hotel series.

It can also be used to monitor the traffic on the room bus (Sniffer) showing all the messages and/or control signals circulating through the bus.

Master Card 44339CHM-M

A Master card is used in the system to prepare and programme the cards. This Master card has its own unique code, the "Hotel Code", which is transferred to the reader by the Master card itself when programming directly together with all the other necessary data and a "Sequential room code" automatically increased by the reader after the first configuration.

It is possible to install a number of systems subdivided into zones and/or subsystems. In this case it is necessary to have a Master card for each of the combinations (for example 3 zones and 2 subsystems = 6 Master cards). Note: The Master card (or cards) identifies the system and must be kept with care for any later configurations.

The system code received from the Master card (together with the code of the subsystem and zone code), is memorised by the reader and when the client card and/or service card is being programmed, it is transferred to all the cards programmed by the reader. If the SCR-ALBM1 programmer should fail or be absent, follow all the access card programming steps using the Master card, according to the procedures explained in the instructions of the readers.

User Card 44339CHU-MB

The user cards allow access to or use of a service. The following types of cards are available: CLIENT, CHAMBERMAID, MAINTENANCE TECHNICIAN, PASSEPARTOUT (SECURITY), SUPER-GUEST, SUB-MASTER, MASTER COPY, ERASER.

The online version also includes the following types: DIRECTOR, HOUSEKEEPER, RECEPTIONIST, BARMAN/FLOOR SERVICE, SUPPLIER, SERVICE USER.



SCR-ALBM1

SCR-ALBM1

MIFARE card programmer - SFW-ALB04 software included

44339CHM-M

Master type MIFARE card - format: ISO7816

44339CHU-MB

MIFARE card user type white - format: ISO7816



44339CHM-M

CVAVEBUS

Cable for AVEbus systems, compliant with EU Regulation 305/2011 - Coil 100 m

Technical details: 2x2x0.50 mm² - Eca performance category

It allows the connection of all AVEbus devices. It comprises two twisted pairs

CVBUS-BUILDING

Cable for AVEbus systems, compliant with EU Regulation 305/2011 - Coil 200m

Technical details: 4x 0.50 mm² - Cac performance category - s1b - d1- a1 (Risk Level MEDIUM) Allows to connect all AVEbus devices with four wires



44339CHU-MB

EXAMPLE PAGES



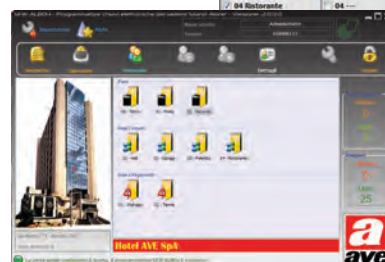
ROOM STATUS:

The AVE software for the stand alone system informs you at all times which rooms are booked and for how long. The room management system allows to have full control of the situation, thus avoiding unpleasant inconveniences to customers, and also to create client cards with an expiry date.



USER MANAGEMENT:

User management allows to keep an eye on the situation at all times and to generate access cards for the rooms to allow hotel staff to do their work without any hitches. The chambermaids can, therefore, enter the rooms to tidy them, but only if the client is not there, to avoid unpleasant inconveniences. The maintenance technician will have access to all the rooms without limitations except when the client is in the room, etc.





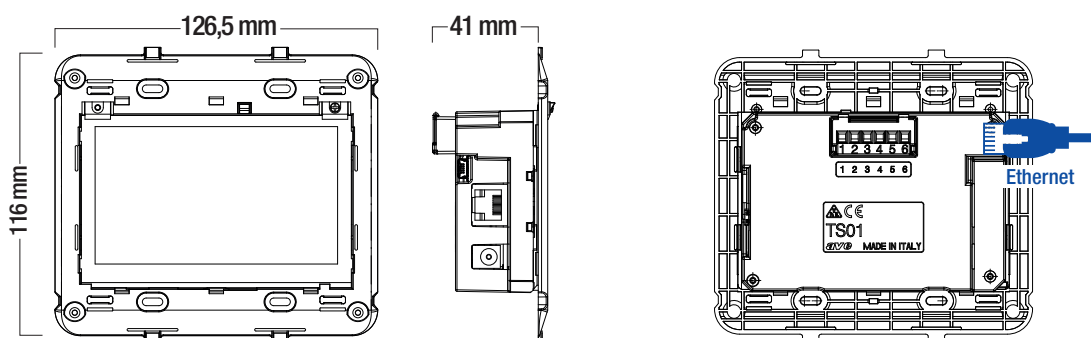
TECHNICAL CATALOGUE

System Peripherals

TOUCH SCREEN FOR ROOM MANAGEMENT - cod. TS01

164

The TS01 device is a Touch Screen supervisor designed to manage the room automation system through a graphical user interface featuring icons and interactive menus. Besides supervising the various functions of the room, such as, for example, the Do Not Disturb sign rather than the request to Tidy the Room or Replenish the Minibar, it integrates the function of displaying the local Weather Forecast, Information about the Hotel Facility, such as, for example, the opening hours of the Restaurant and local Tourist Information.



The Touch Screen TS01 in Hotel Management mode, appropriately programmed and with the presence in the system of the device cod. 53WBS-HUB, allows to manage the room's automation system both locally and remotely by performing the functions of "Lighting Control", "Shutter Control" and "Access Control" both in the room and in the facility at large. It can generate browser accessible Web pages with dedicated login using the credentials generated during the Check-in phase, which graphically depict the functions of the room, thus allowing the guest to manage it easily from his Smartphone.

The device can be installed either vertically or horizontally (the technical menu of the device contains the icon that allows to change the orientation of user graphics). The device is installed using a flush-mounted box BL02P or cod. BL02CG (the dimensions are given below).

Regarding the electrical wiring, the device needs a 12Vdc power supply and the connection to AVEbus. Moreover, to access Tourist Information and Smartphone Management, an Ethernet connection is required (using the provided small RJ45 connector).

Note 1: The device must be completed with plates "Vera 44", "Zama 44" and "Personal 44" for the box BL02P and BL02CG.

Note 2: the "Thermostat" function of the TS01 cannot be used for hotel management.

Technical details

• Module:	3+3 modules S44 (WxHxD) 116x126.5x41 mm
• Protection degree:	IP30 installed in the respective flush-mounted box
• Power supply from SELV source:	- Rated voltage: 12Vdc - Allowed fluctuation: 10.5Vdc - 14Vdc - Absorption at 12Vdc: 300 mA - Absorption from Bus line 4.5 mA
• Reference Temp. and Rel. Humidity:	25°C RH 65%
• Temperature range Operating environment:	from +5°C to +35°C
• Maximum Relative Humidity:	90% at 30°C
• Max. Height:	2000 m a.s.l.

Connections

• Terminal 1:	Positive AVEbus
• Terminal 2:	Negative AVEbus and Negative Power Supply
• Terminal 3:	--
• Terminal 4:	--
• Terminal 5:	Positive 12Vdc power supply
• Terminal 6:	--
• ETH:	LAN network connector (for space-saving reasons, the connector supplied as standard must be used)



TS01

TS01

Touch screen with 4,3" display and graphical interface based on icons and integrated chronothermostat. To be completed with plates "Vera 44", "Zama 44" and "Personal 44" for the box BL02P and BL02CG. The device can be installed, both horizontally (landscape) and vertically (portrait) using our box BL02... Integrated Web Server for compatibility with AVE Cloud and AVE Connect. Technical details

- Power supply: 12Vdc - 0.5A by dedicated line
- Made in monoblock for flush mounted installation on special box BL02P or BL02CG

DISPLAY INFORMATION



TECHNICAL INFORMATION

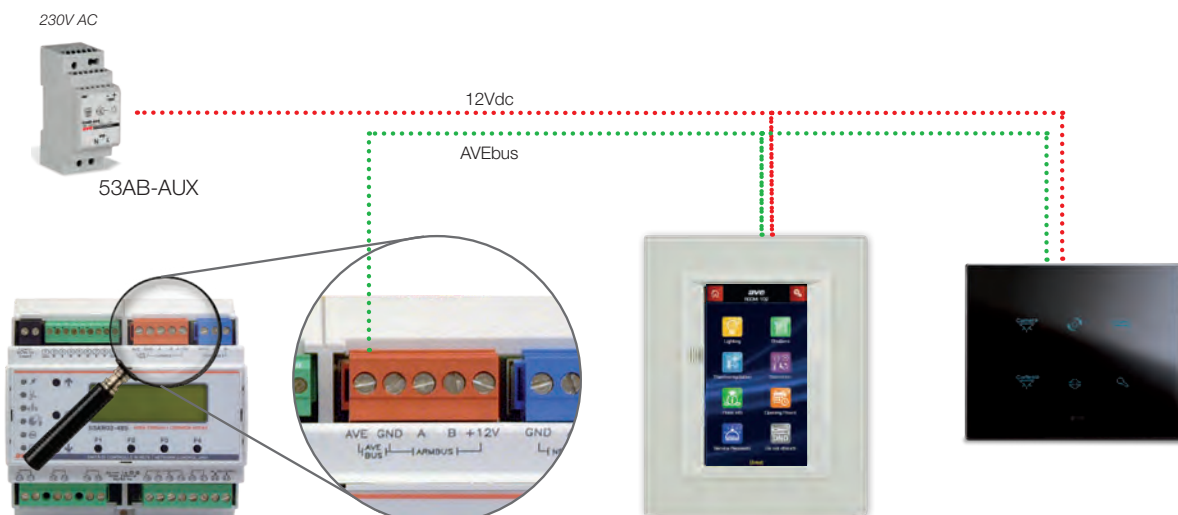
The function of supervising the room with the Smartphone requires the presence of the device cod. 53WBS-HUB and the relative Ethernet connection with the Touch Screen of the camera cod. TS01.

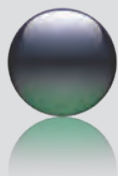


53WBS-HUB



FUNCTIONAL DIAGRAM





TECHNICAL CATALOGUE

System Peripherals

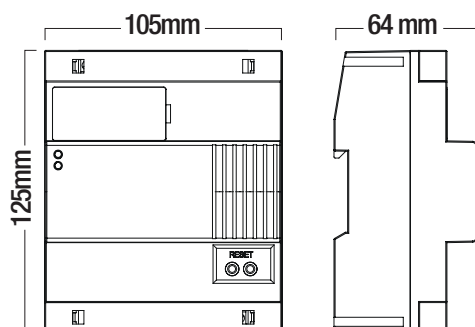
WEB SERVER HUB FOR TECHNOLOGICAL SYSTEMS - ONLINE - Cod. 53WBS-HUB

166

The device 53WBS-HUB is a Web Server that acts as primary supervisor of other secondary supervisors. It can be used both in the Residential Home Automation system and in the Services and Hotel automation systems.

In the Hotel Automation system it allows to connect the server for Online Hotel Management and the camera Touch Screens, implementing the latter's functions. In fact, by accessing the Web portal generated by 53WBS-HUB, the hotel owner can post the local Tourist Information to update clients about events in the tourist area by directly consulting the camera Touch Screen.

Moreover, during the Check-in phase the hotel management software cod. SFW-ALB05 interacts with 53WBS-HUB to generate access credentials that will allow the guest to use the Touch Screen TS01 remotely by performing the functions of "Lighting Control", "Shutter Control" and "Access Control" both for the room and for the facility at large.



Technical details

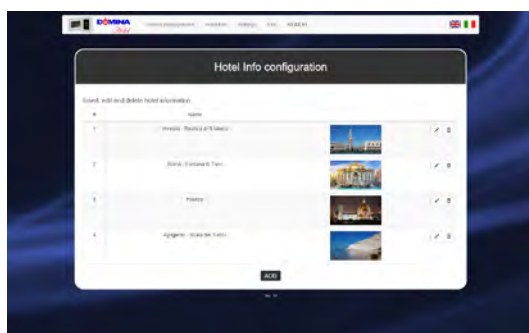
• Module:	6 DIN modules (WxHxD) 105 x 125 x 60 mm
• Protection degree:	IP30 installed in the respective electrical panel
• Power supply from SELV source:	- Rated voltage: 12Vdc - Allowed fluctuation: 10.5Vdc - 14Vdc - Absorption at 12Vdc: 250 mA MAX
• Reference Temp. and Rel. Humidity:	25°C RH 65%
• Temperature range Operating environment:	from 0°C to +40°C
• Maximum Relative Humidity:	90% at 30°C
• Max. Height:	2000 m a.s.l.

Connections

• Terminal [AVEbus AVE]:	Positive BUS
• Terminal [AVEbus GND]:	Negative BUS,
• Terminal [AUX +12]:	Positive 12Vdc power supply
• Terminal [AUX GND]:	Negative 12Vdc power supply
• ETH Connector LAN network	

Warnings

The device is not connected to the bus AVEbus or ARMBus, and does not perform the typical functions of home automation supervisors.





53WBS-HUB

53WBS-HUB

Web server device with Hub and Concentrator function for special technological systems - 6 DIN Modules It allows to centralize the information and export the graphic client of the Touch Screen codeTS01 to WebApp, usable by devices equipped with an Internet browser, allowing the remote control of the functions and the supervision

HOTEL AUTOMATION

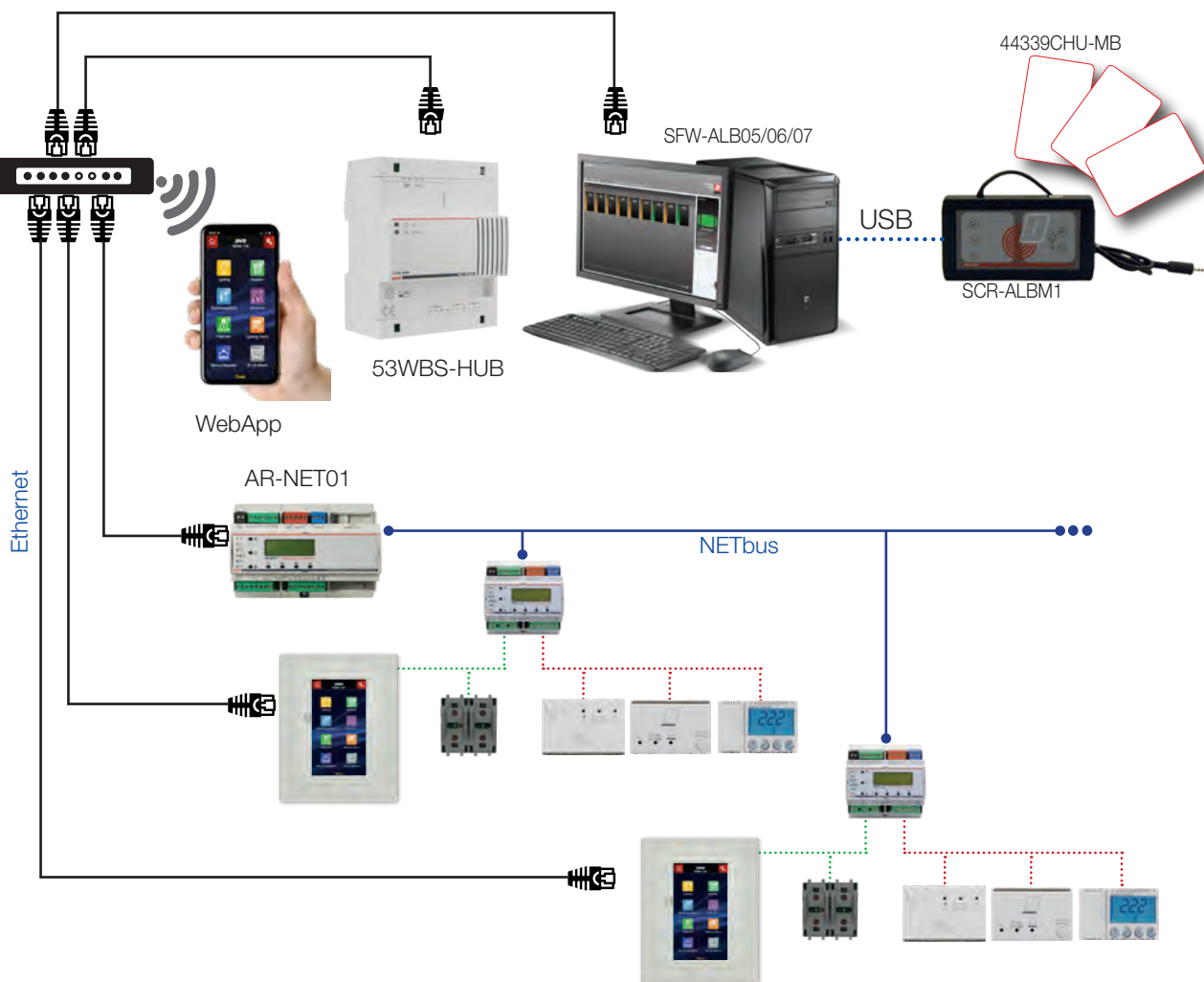
HOTEL MANAGEMENT

VIDEO INTERCOM

ANTI INTRUSION

WIRING DIAGRAMS AND PRESCRIPTIONS

FUNCTIONAL DIAGRAM





TECHNICAL CATALOGUE

Integration with Domina Smart Devices

INTEGRATIONS TABLES

168

Courtesy Light

Master External Reader (44xGA01-M Id. ARMBus 10)	Output	Input
Courtesy Light - n. 1	Out 3-4	In. 2
Courtesy Light - n. 1b	53ABR4 Id. 01	In. 2 - AVEbus Id. 01
Courtesy Light - n. 2	53ABR4 Id.22	AVEbus Id. 22
Slave External Reader (44xGA01-M Id. ARMBus 11)	Output	Input
Courtesy Light - n. 1	Out 3-4	In. 2
Courtesy Light - n. 1b	53ABR4 Id. 02	In. 2 - AVEbus Id. 02
Courtesy Light - n. 2	53ABR4 Id. 23	AVEbus Id. 23

Room Light

Room control unit (53AR01-485)	Output	Input
Light - n. 1	Out 16-19	In. 8 - AVEbus Id. 10
Direct control - Domina smart n. 2 ÷ 17 (53ABR4)	AVEbus 30 - 3F	AVEbus 30 - 3F
Direct control - Domina smart n. 2 ÷ 17 (441ABDI)	AVEbus 30 - 3F	AVEbus 30 - 3F
Direct control - n. C1	AVEbus 20	SFW-ALB05 Com.1
Direct control - n. C2	AVEbus 21	SFW-ALB05 Com.2
Direct control - n. C3	Out 14-15	SFW-ALB05 Com.3
Direct control - n. C6	Out 18-19	SFW-ALB05 Com.6
Master Internal Reader (44xGA30-M Id. ARMBus 20)	Output	Input
Luce Light - n. 1	Out 3-4	In. 1 - AVEbus Id. 15
Slave Internal Reader (44xGA30-M Id. ARMBus 21)	Output	Input
Light - n. 1	Out 3-4	In. 1 - AVEbus Id. 16

Auxiliary Functions

Room control unit (53AR01-485)	Output	Input
Electrical Lock System	Out 10-11	In. 3 - AVEbus Id. 11
Domina smart actuator (53ABR4)	Output	Input
Auxiliary output activ during the Check-In status	AVEbus 26	AVEbus 26
Auxiliary output activ during the Check-Out status	AVEbus 27	AVEbus 27
Auxiliary output activated at the Check-In event	AVEbus 28	AVEbus 28
Auxiliary output activated at the Check-Out event	AVEbus 29	AVEbus 29

Room Functions Specifications

Master Internal Reader (44xGA30-M Id. ARMBus 20)	Output	Input
Do not Disturb signaling	Out 5-8	Frontal button
	Led (44xGA01-M)	In. 5 (53AR01-485) AVEbus Id. 12
Domina smart actuator (53ABR4)	Output	Input
Make up my Room signaling	AVEbus Id. 09	AVEbus Id. 08
a Laundry Service signaling	AVEbus Id. 14	AVEbus Id. 13
Have a Mail signaling	AVEbus Id. 1A	

Room shutters automation

DOMINA smart Actuator (44..ABRT01 - 442ABT4R2)	Output	Input
Output with local control for shutters and curtains - n.1	AVEbus Id. 30	AVEbus Id. 30
Output with local control for shutters and curtains - n. ...	AVEbus Id. ...	AVEbus Id. ...
Output with local control for shutters and curtains - n. 16	AVEbus Id. 3F	AVEbus Id. 3F

Actuator, controls and interfaces Integration functions with domina smart devices

169



442ABTC6



442ABTC1



442ABT4
442ABT4R2



442ABT2-1



441ABT6S



445ABT6S



449ABT6S



442ABT6S



443ABT6S



53ABR4



ABIN06



444ABT2B



444ABT2CR



444ABT20T

442ABTC1

1 channel AVE Touch transmitter - to be used with AVE Touch front plate - 1 module

442ABTC6

Multi Touch control device from 1 channel to 6 channels – 3 modules

441ABT6S

445ABT6S

449ABT6S

AVEbus “frontal touch” control device with 6 channel - Domus - Tekla - Class series - 3 modules
The device can be requested with customized front. Compatible with front plates: Vera 44, Tecnopolimero 44, Zama 44, Personal 44 and Young 44

442ABT6S

443ABT6S

AVEbus “frontal touch” control device with 6 channel - Life - Allumia series - 3 modules
The device can be requested with customized front. Compatible with front plates: Vera 44, Tecnopolimero 44, Zama 44, Personal 44 and Young 44

442ABT2-1

Control device with 2 channels – to be completed with key cover - 1 module

442ABT4

Control device with 4 channels - to be completed with key cover - 2 modules

442ABT4R2

Control device with four channels with built-in multifunction actuator - 10A resistive - 4A incandescent lights - 4A COSφ 0,6 - 2 modules

53ABR4

4-Channel actuator - 8A resistive and incandescent lamp - 5A cosφ 0,6 - 4 DIN modules

ABIN06

Multifunction contacts interface with 6 channels + 3 LED outputs - AVEbus - installation for bottom of box - dimensions (LxHxP) 52x44x18 mm

53ABR8

Multifunction actuator for the management of 8 lights or 4 rolling shutters with adjustable slats - manual forcing of the outputs by means of front control buttons with relative status identification LED - potential free contact outputs - 10A resistive - 8 channels - AVEbus - 8 Mod. DIN

53AB-DIM

1-Channel universal dimmer actuator for LED Lights, Incandescent Lamps, Compact Fluorescent Lamps (CFL), Electronic Transformers and Electronic Power Units for LED. (LE) Leading Edge and (TE) Trailing edge mode control with MASTER or SLAVE function and staircase lighting function with switch off alert - 2 modules

444ABT2B

Toggle control device with 2 channels - toggle in white colour - supplied with no. 1 plastic white ring - 1 module

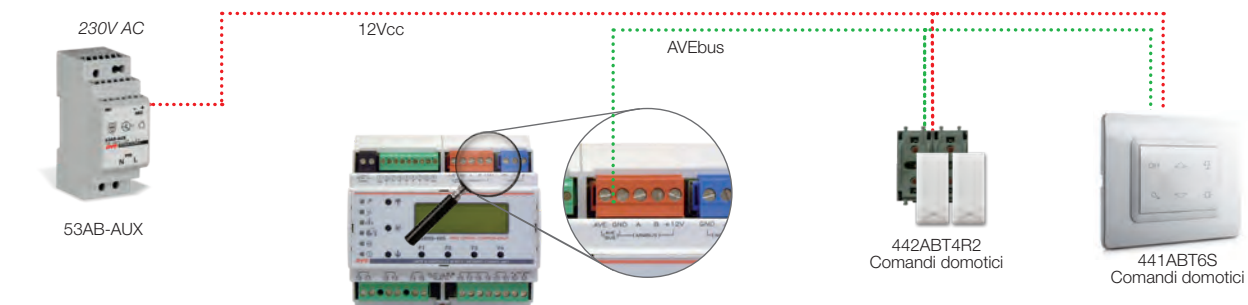
444ABT2CR

Toggle control device with 2 channels - toggle in chrome colour - supplied with no. 1 plastic chrome ring - 1 module

444ABT20T

Toggle control device with 2 channels - toggle in brass colour - supplied with no. 1 brass ring - 1 module

FUNCTIONAL DIAGRAM





TECHNICAL CATALOGUE

Integration with Domina Smart Devices

INTEGRATIONS TABLES

Room thermoregulation

Thermostat (44..GA53-M)	Output	Input
Output electrovalve Summer/Winter	Out 3-4	44..GA53-M (S. Locale)
Fan speed output for fancoil	Out 3-6/7/8	44..GA53-M (S. Locale)
Domina smart actuator (ABRTM-PV - 44..ABRTM-PV - 53ABRTM-PV)	Output	Input
Output electrovalve Winter - Zone n.1	AVEbus Id. 10	44..GA53-M (Id.40)
Output electrovalve Summer - Zone n.1	AVEbus Id. 10	44..GA53-M (Id.40)
Output electrovalve Winter - Zone n. 2 (External probe of 44..GA53-M)	AVEbus Id. 30	44..GA53-M (Id.40)
Output electrovalve Summer - Zone n. 2 (External probe of 44..GA53-M)	AVEbus Id. 30	44..GA53-M (Id.40)
Output electrovalve Winter - Zone n.3	AVEbus Id. 50	44..GA53-M (Id.42)
Output electrovalve Summer - Zone n.3	AVEbus Id. 50	44..GA53-M (Id.42)
Output electrovalve Winter - Zone n. 4 (External probe of 44..GA53-M)	AVEbus Id. 70	44..GA53-M (Id.42)
Output electrovalve Summer - Zone n. 4 (External probe of 44..GA53-M)	AVEbus Id. 70	44..GA53-M (Id.42)
Output electrovalve Winter - Zone n.5	AVEbus Id. 90	44..GA53-M (Id.44)
Output electrovalve Summer - Zone n.5	AVEbus Id. 90	44..GA53-M (Id.44)
Output electrovalve Winter - Zone n. 6 (External probe of 44..GA53-M)	AVEbus Id. B0	44..GA53-M (Id.44)
Output electrovalve Summer - Zone n. 6 (External probe of 44..GA53-M)	AVEbus Id. B0	44..GA53-M (Id.44)
Output electrovalve Winter - Zone n.7	AVEbus Id. D0	44..GA53-M (Id.46)
Output electrovalve Summer - Zone n.7	AVEbus Id. D0	44..GA53-M (Id.46)
Domina smart actuator (ABRTM-PV - 44..ABRTM-PV - 53ABRTM-PV)	Output	Input
Output for general room electro-pump	AVEbus Id. F0	44..GA53-M (Id.40÷48)
Domina smart actuator (53ABRTM-FC)	Output	Input
Fan speed output for fancoil Summer/Winter - Zone n. 1	AVEbus Id. 20	44..GA53-M (Id.40)
Fan speed output for fancoil Summer/Winter - Zone n. 2	AVEbus Id. 40	44..GA53-M (Id.41)
Fan speed output for fancoil Summer/Winter - Zone n. 3	AVEbus Id. 60	44..GA53-M (Id.42)
Fan speed output for fancoil Summer/Winter - Zone n. 4	AVEbus Id. 80	44..GA53-M (Id.43)
Fan speed output for fancoil Summer/Winter - Zone n. 5	AVEbus Id. A0	44..GA53-M (Id.44)
Fan speed output for fancoil Summer/Winter - Zone n. 6	AVEbus Id. C0	44..GA53-M (Id.45)
Fan speed output for fancoil Summer/Winter - Zone n. 7	AVEbus Id. D0	44..GA53-M (Id.46)
Domina smart actuator (53ABR4)	Output	Input
Summer season contact ouput	AVEbus Id. 05	SFW-ALB05 (Season)
Winter season contact ouput	AVEbus Id. 06	SFW-ALB05 (Season)
Intermediate season contact ouput	AVEbus Id. 07	SFW-ALB05 (Season)

Thermoregulation - Integration functions with Domina smart devices

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ABRTM-PV

ABRTM-PV

1 channel actuator for valves and electro-pumps - hidden installation



441ABRTM-PV 445ABRTM-PV 449ABRTM-PV

□ 441ABRTM-PV

■ 445ABRTM-PV

■ 449ABRTM-PV

1 channel actuator for valves and electro-pumps - Domus - Tekla - Class series 1 module

■ 442ABRTM-PV

■ 443ABRTM-PV

1 channel actuator for valves and electro-pumps - Life - Allumia series - 1 module

53ABRTM-PV

4 channels actuator for valves and electro-pumps - 1A - 2 DIN modules



442ABRTM-PV 443ABRTM-PV

53ABRTM-FC

1 channel actuator for fancoil - 1A - 2 DIN modules



53ABRTM-PV 53ABRTM-FC

ABR01

1 channel hidden actuator - 2A resistive and incandescent light 2A COSφ 0,6 dimensions (LxHxD) 41x41x19 mm

□ 441ABR1-M

■ 445ABR1-M

■ 449ABR1-M

1 channel actuator with output status restore option (after blackout event) 10A resistive or 4A incandescent lights - 4A COSφ 0,6 - Domus - Tekla - Class series - 1 module

■ 442ABR1-M

■ 443ABR1-M

1 channel actuator with output status restore option (after blackout event) 10A resistive or 4A incandescent lights - 4A COSφ 0,6 - Life - Allumia series - 1 module

53ABR4

5A cosφ 0,6 - 4 moduli DIN - 4 channel actuator - 8A resistive and incandescent lamp



53ABR4 53ABR8

53ABR8

Multifunction actuator for the management of 8 lights or 4 rolling shutters with adjustable slats - manual forcing of the outputs by means of front control buttons with relative status identification LED - potential free contact outputs - 10A resistive - 8 channels - AVEbus - 6 Mod. DIN

HOME AUTOMATION

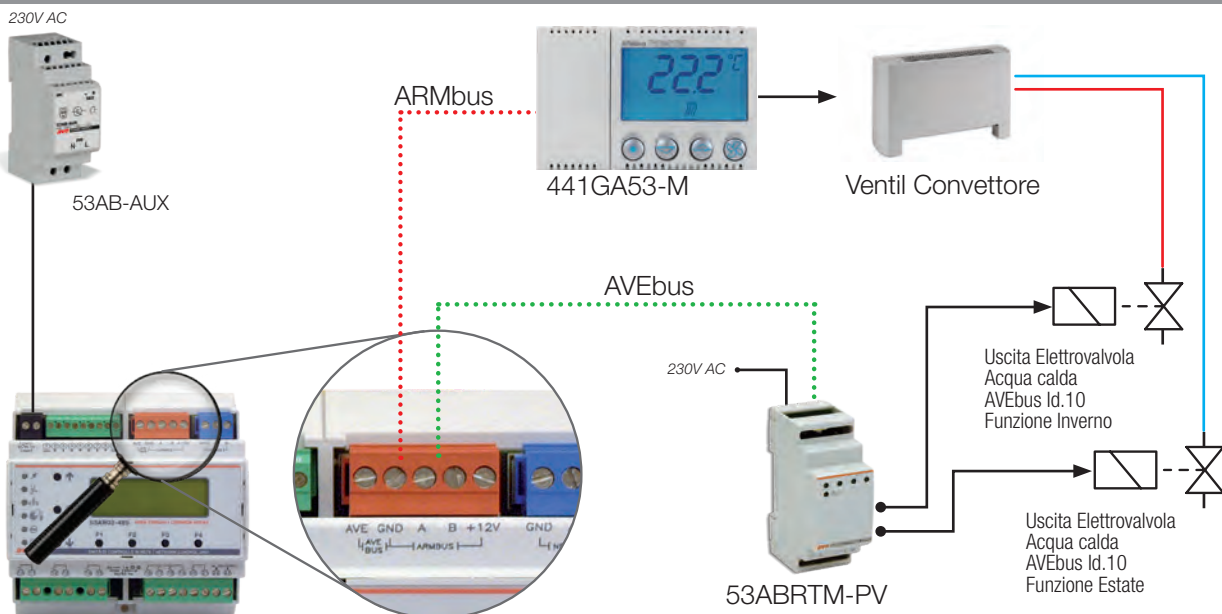
HOTEL MANAGEMENT

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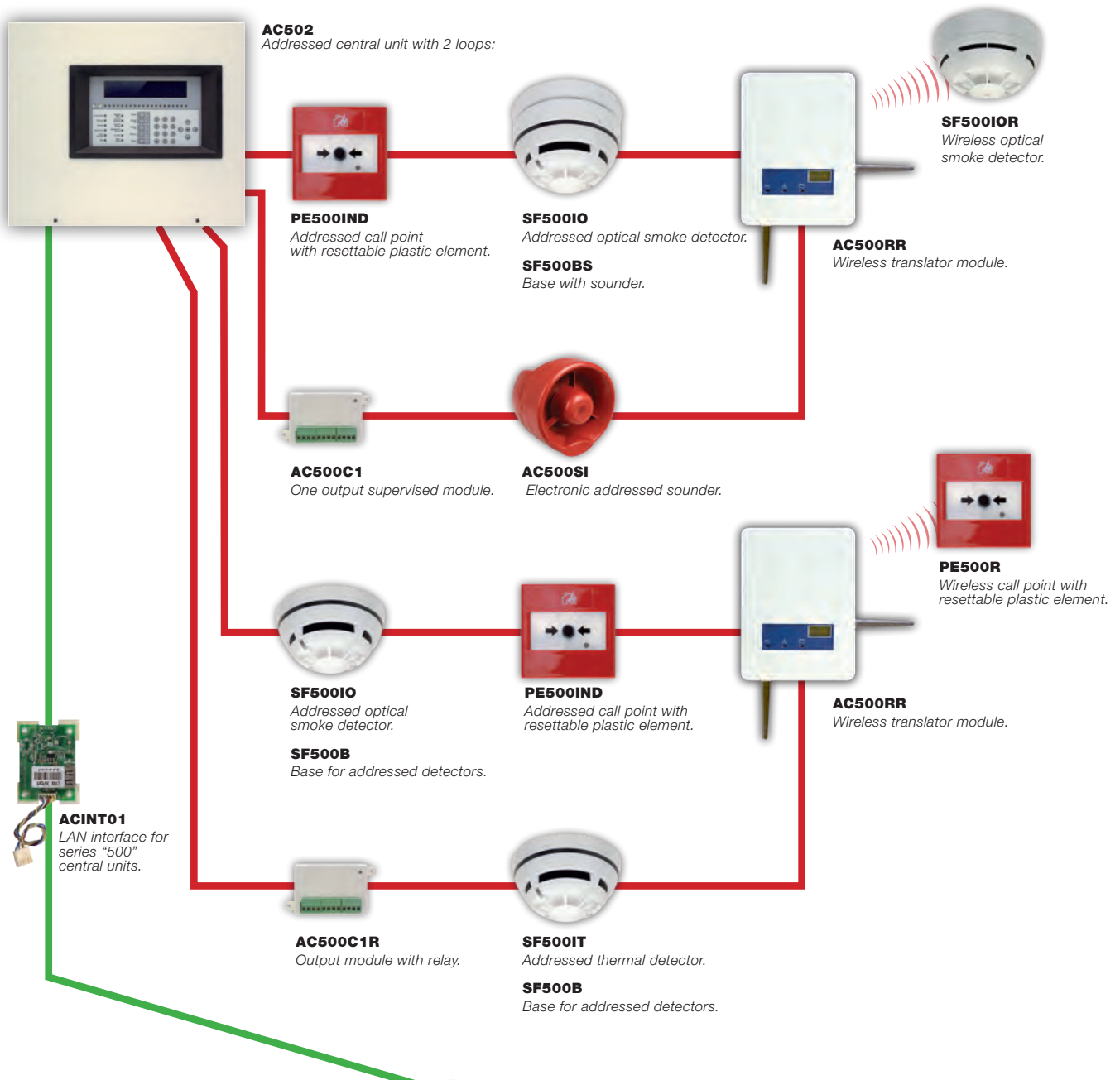
FUNCTIONAL DIAGRAM





TECHNICAL CATALOGUE

Integration With Automatic Fire Detection Systems



The automatic fire detection systems can be integrated with the hotel automation system "Domina Hotel".



Addressed system with 1-4 loops control panel

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AC501

AC501

One loop fire detection control unit with the possibility of connecting 240 detectors. 100 logical zones, loop current of 500mA. Programmable via USB. Dimensions (420 x 360 x 85 mm). To be completed with two batteries (AF912).

AC502

Two loops fire detection control unit. Possibility of connecting 240 detectors for each loop. 100 logical zones, loop current of 500mA. Programmable via USB. Dimensions (420 x 360 x 85 mm). To be completed with two batteries (AF912).

AC502EX2L

2 loops expansion board for AC502 central unit.

ACINT01

LAN interface for series "500" central units. It allows the integration with the hotel automation systems "DOMINA Hotel" and the home automation systems "DOMINA Plus".

AC500P

Programming unit for series "500". It allows you to program all the devices of the "500" series (modules, detectors, call points, sounders).

AC500PRA

Remote control and display panel for AC501 and AC502 central unit. In the system you have to use at least one AC500RS485. If in the system there are two or more remote panels you need only one AC500RS485 interface.

AC500RS485

RS485 interface for AC501 and AC502 central units. It allows the configuration of a RS485 network to which you can connect:

- Two or more central units. You need one AC500RS485 for each central unit.
- One or more AC500PRA remote panel.



AC502



ACINT01



AC500P

Nota: please program the devices via the programming unit AC500P before connecting them.

HOME AUTOMATION

HOTEL MANAGEMENT

VIDEO INTERCOM

ANTI INTRUSION

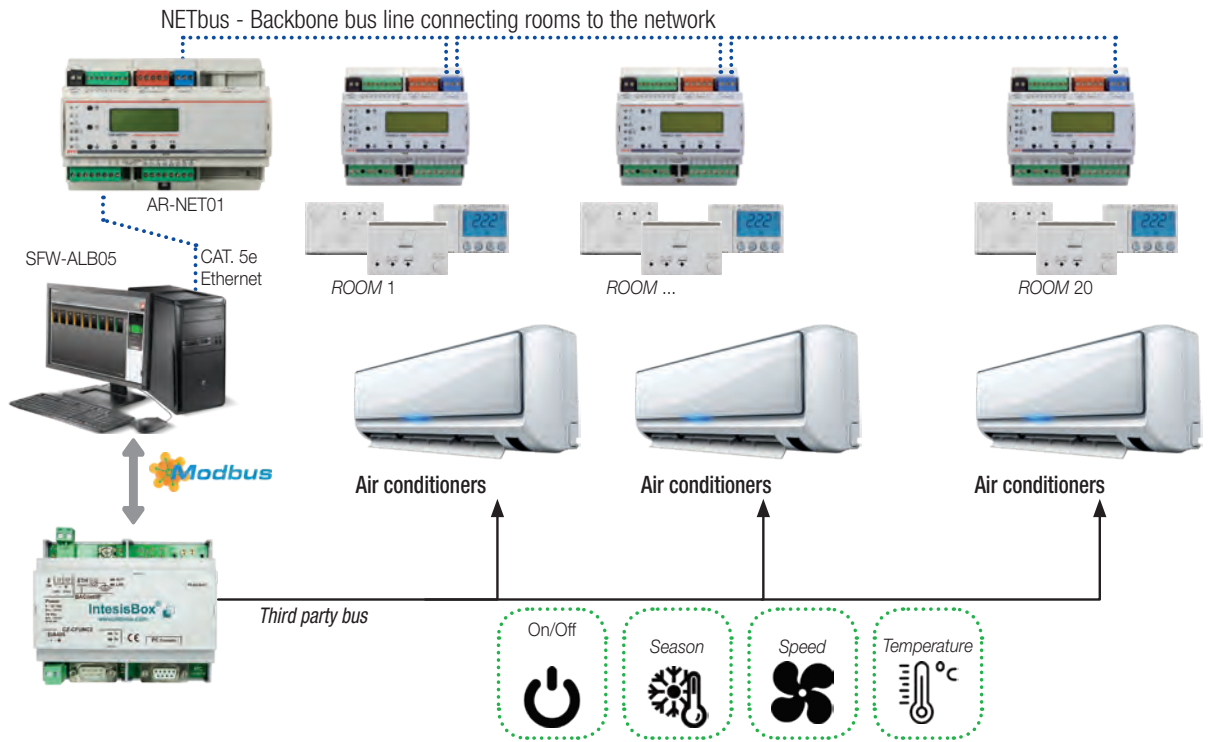
WIRING DIAGRAMS AND PRESCRIPTIONS



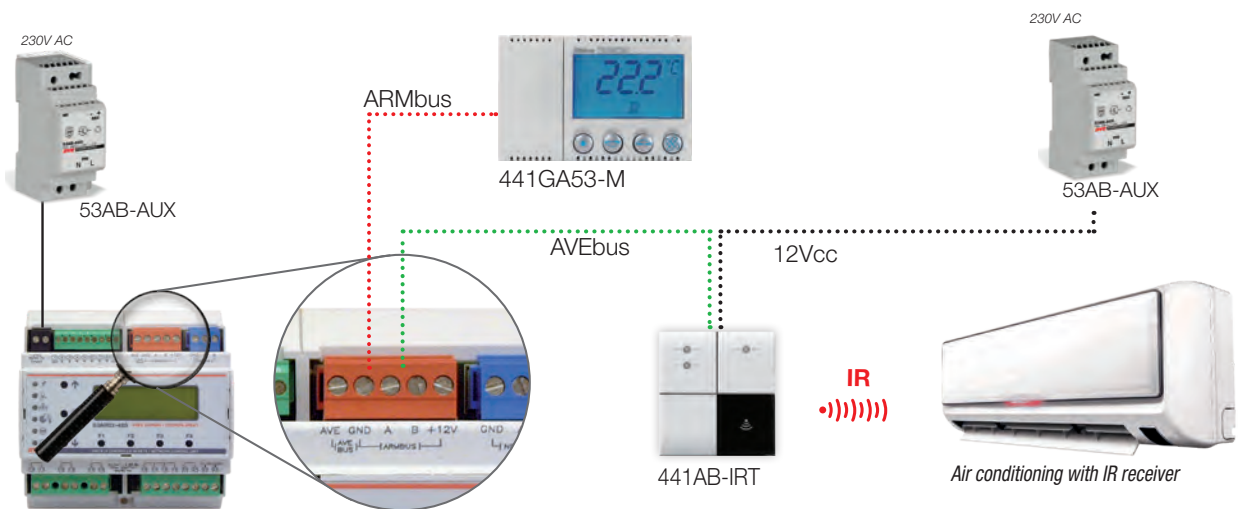
TECHNICAL CATALOGUE

Integration With Air Conditioning System and Fans

The DOMINA^{Hotel} Online System communicates with the main brands of centralized air conditioning using the protocol Modbus.



Integration with IR interface for air conditioning control



Warning:
the device must be installed in front of the appliance to be managed, alternatively the supplied IR extension must be used, its transmitting end must be glued to the appliance's IR receiver using the appropriate double-sided adhesive.

Air conditioning control



441GA53-M

□ **441GA53-M** ■ **445GA53-M** ■ **449GA53-M**

Thermostat for Hotel Management - Domus - Tekla - Class series - 3 modules
Device suitable both for operation in Stand-Alone mode and for Supervised mode "On Line". It has relay outputs for controlling the electric valve and the fan-coil speeds and by means of the analogue input it detects the window status and / or the presence of the guest in the room. Second analogue input allows the measurement of the ambient temperature of the second thermal zone, whose electric valve is controlled by the room control unit 53GA0x-485



442GA53-M

■ **442GA53-M** ■ **443GA53-M**

Thermostat for Hotel Management - Life - Allumia series - 3 modules
Device suitable both for operation in Stand-Alone mode and for Supervised mode "On Line". It has relay outputs for controlling the electric valve and the fan-coil speeds and by means of the analogue input it detects the window status and / or the presence of the guest in the room. Second analogue input allows the measurement of the ambient temperature of the second thermal zone, whose electric valve is controlled by the room control unit 53GA0x-485



53AR01-485

53AR02-485

53AR01-485

Room control unit for online hotel management system - 6 DIN modules

53AR02-485

Common area control unit for online hotel management system - 6 DIN modules

AR-NET01

Interface for online hotel management system - 9 DIN modules

SFW-ALB05

Software for on line hotel management system (20 rooms licence)

SFW-ALB06

Software for on line hotel management system (50 rooms licence)

SFW-ALB07

Software for on line hotel management system (>50 rooms licence)



AR-NET01

HOME AUTOMATION

HOTEL MANAGEMENT

VIDEO INTERCOM

ANTI INTRUSION

WIRING DIAGRAMS AND PRESCRIPTIONS

Infrared transmitter



441AB-IRT



445AB-IRT

□ **441AB-IRT** ■ **445AB-IRT** ■ **449AB-IRT**

Infrared transmitter for interfacing with air-conditioning systems - Domus - Tekla - Class series - 2 modules

■ **442AB-IRT** ■ **443AB-IRT**

Infrared transmitter for interfacing with air-conditioning systems - Life - Allumia series - 2 modules



442AB-IRT



443AB-IRT

ABPC001

Program USB cable

Important:

The device is configured using the serial configuration cable ABPC001 with relative SFW-IRT software. The device should be powered only at 12V (AUX) (it must be disconnected from the BUS).



TECHNICAL CATALOGUE

Integration With Air Conditioning System and Fans



Low consumption



Very low consumption



Noiselessness



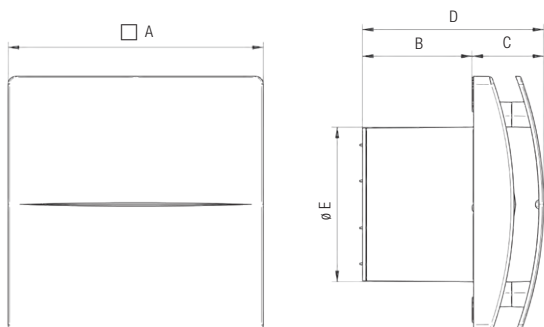
Long life



Automatic shutters



Dimensions (mm)



Code	A	B	C	D	ØE
VND90 - VND90T	164	55	46	101	90
VND100 - VND100T - VND100HT	164	70	46	116	99
VND120 - VND120T - VND120HT	184	81	48	129	119
VND150 - VND150T - VND150HT	218	97	52	149	148
VND100B - VND100TB	164	70	46	116	99

Axial fans IPX4 - "AXIAL"



VND90
VND90T



VND90

Versione base.

Axial fan Ø90mm - stylish front cover - ball bearing motor (long life) - max air flow 55 m³/h - for installation in bathrooms, toilets and small living areas.
Basic version.



VND90T

axial fan Ø90mm - stylish front cover - ball bearing motor (long life) - max air flow 55 m³/h - for installation in bathrooms, toilets and small living areas.
Timer version.



VND100

Axial fan Ø100mm - stylish front cover - ball bearing motor (long life) - max air flow 83 m³/h - for installation in bathrooms, toilets and small living areas.
Basic version.



VND100T

Axial fan Ø100mm - stylish front cover - ball bearing motor (long life) - max air flow 83 m³/h - for installation in bathrooms, toilets and small living areas.
Timer version.



VND100HT

Axial fan Ø100mm - stylish front cover - ball bearing motor (long life) - max air flow 83 m³/h - for installation in bathrooms, toilets and small living areas.
Humidistat & timer version.



VND100
VND100T
VND100HT



VND120

Axial fan Ø120mm - stylish front cover - ball bearing motor (long life) - max air flow 140 m³/h - for installation in bathrooms, toilets and small/medium living areas.
Basic version.



VND120T

Axial fan Ø120mm - stylish front cover - ball bearing motor (long life) - max air flow 140 m³/h - for installation in bathrooms, toilets and small/medium living areas.
Timer version.



VND120HT

Axial fan Ø120mm - stylish front cover - ball bearing motor (long life) - max air flow 140 m³/h - for installation in bathrooms, toilets and small/medium living areas.
Humidistat & timer version.

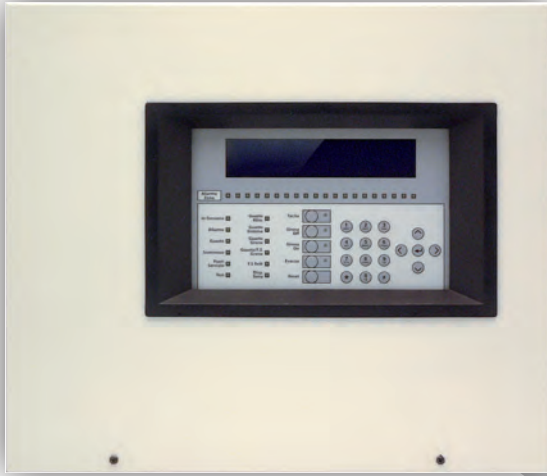


VND120
VND120T
VND120HT



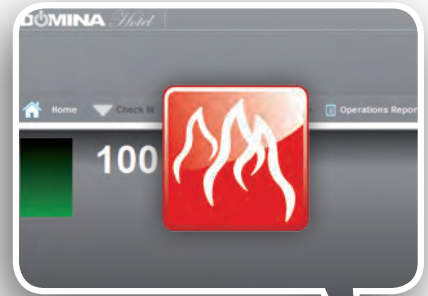


Interface with fire detection systems



AC502
 Centrale indirizzata a 2 loop:
 Addressed central unit with 2 loops:

- 240 devices for each loop
- 100 logical zones
- Loop current of 500mA
- Control via PC with USB or LAN connection
- CPR approval of the central unit and all associated peripherals.



ACINT01
 LAN interface for
 series "500"
 central units.



Environment control and Ventilation



VND100HT
 Axial fan Ø100mm

- stylish front cover
- ball bearing motor (long life)
- max air flow 83 m3/h

• for installation in bathrooms, toilets and small living areas.
 • Humidistat & timer version.



Low consumption



Very low consumption



Noiselessness

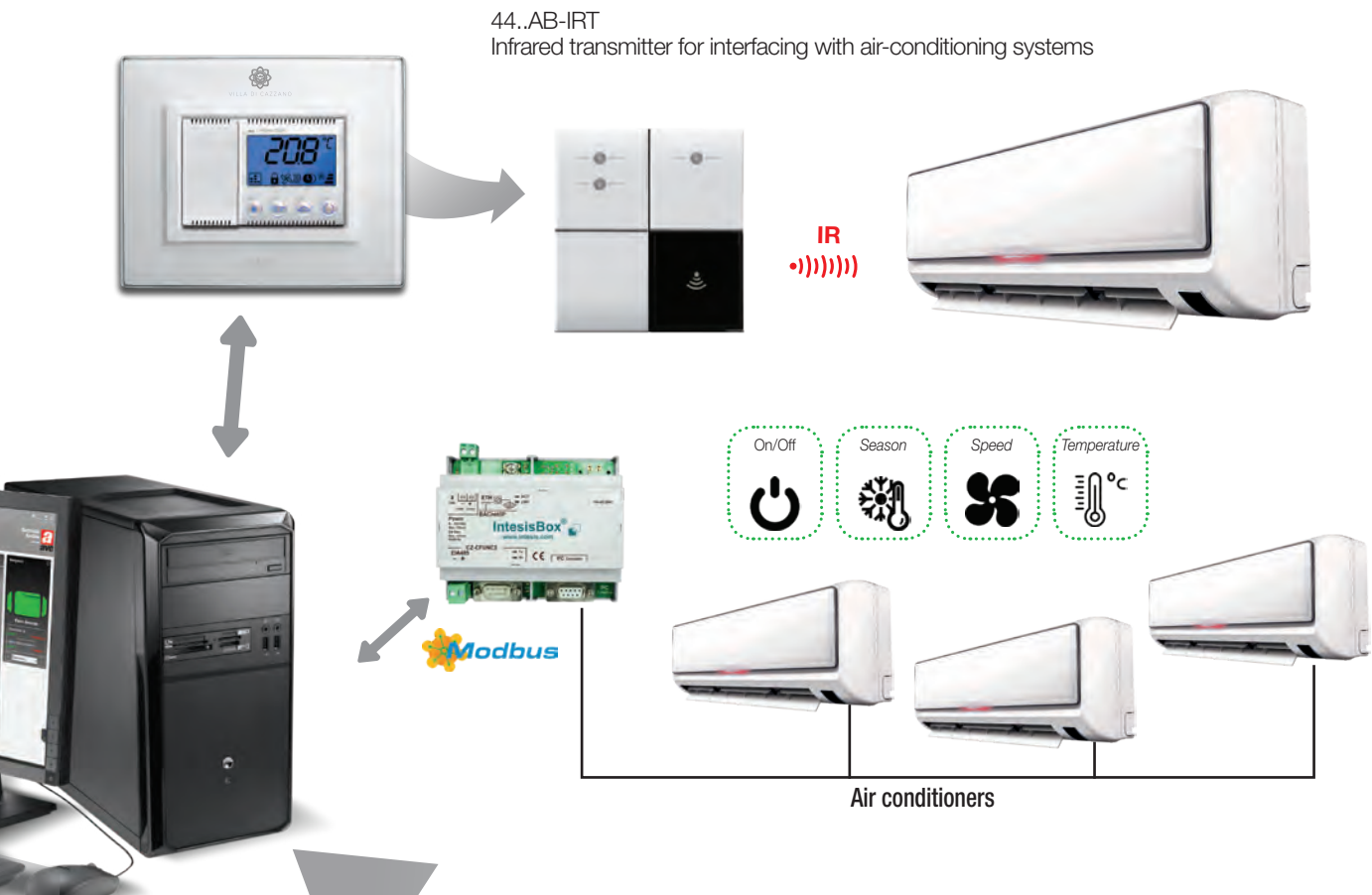


Long life

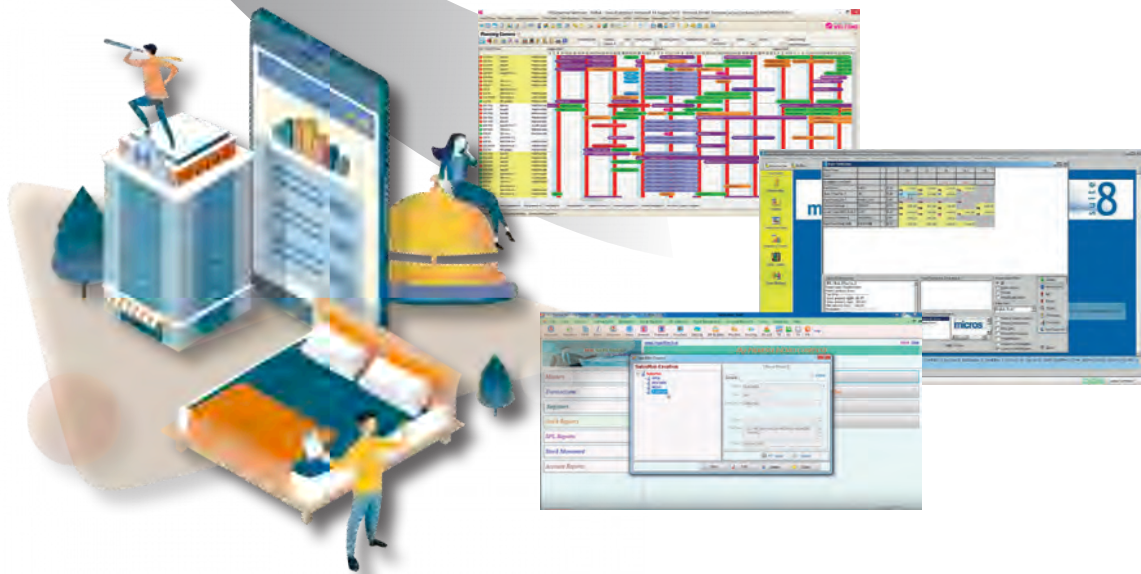


Automatic shutters

Interface with air conditioning systems



Interface with the main PMS software





Research and development of new solutions, alongside the design and precise production of components allow AVE to collaborate with the best installers, designers and architects, offering rational answers suited to the evolving needs of residential, hotel and industrial systems worldwide.



AVE Patent n° 211

ALLUMIA

Allumia offers a futuristic take on AVE technology. This forward-looking wiring accessories series gives a unique modern look to your home. Available in natural aluminium or anthracite grey, the Allumia Touch front plates coordinate with an innovative sliding system that covers sockets, guaranteeing prestigious design and a higher level of safety.



AVE Patent n° 211

LIFE

The Life series, developed from an AVE patent, is produced with innovative materials that make it possible to obtain a glossy brilliant black colour and a scratchproof, dustproof surface. The light comes on when the surface is touched, without leaving fingerprints. From metal to technopolymer, and finally to glass: Life is complemented by traditional front plates or touch keyboards, which can be installed in special flush boxes wall-lined.



AVE Patent n° 211

DOMUS

White in colour, the Domus series fits perfectly into any furnishing context. Every switch is clean and essential, ready to be complemented with glass, technopolymer or metal front plates. Top-of-the-range glass keyboards with touch technology can match up to six independent controls, with infinite customisation possibilities.



AVE Patent n° 211



AVE Patent n° 211

TEKLA

The matt black technopolymer of the Tekla series subtly merges into any room, with its mellow dark hue. With Tekla, AVE draws out its consolidated know-how in the sector to offer highly advanced materials, technologies and solutions. The Tekla series can be fitted with traditional, touch or toggle lightable controls.

CLASS

This new series is a precise choice from Ave, to meet our most demanding customers who love the details. In addition to our strong commitment to technology, we focused on aesthetics, offering refined designs, especially in materials, combining tradition, innovation and, above all, celebrating the personality of those who match them with their home interiors, as a true signature of style.



AVE Patent n° 247

NEW STYLE / ENGLAND STYLE

Is dedicated to people who wish to stand out with simplicity, fluidly alternating between vintage and contemporary design. The exclusive nature of glass, aluminium and Corian® is an essential quality for creating a signature private space. Lightable toggle controls give a new dimension to light, combining with sockets and solutions suitable to different international standards.

BRITISH STANDARD

AVE offers every technical and commercial partner the chance to choose the right elements for their standards. The brand new British Standard line allows clients to embrace all AVE designs and match them with the desired technology, by means of international sockets, touch, automated or traditional controls, and many different looks to personalise the home.

HOME AUTOMATION

HOTEL MANAGEMENT

VIDEO INTERCOM

ANTI INTRUSION

WIRING DIAGRAMS AND PRESCRIPTIONS