Tehnički katalog





SISTEM HOTELSKOG MENADŽMENTA Hotelski objekti • Apartmanski objekti







### COMPASSO D'ORO



"Qualitec design award"





Top selection innovation "Innovation design award"



**DESIGN Index** 

Ave proizvodi jesu savremeni tehnički uređaji koje mora instalirati obučeno osoblje u skladu sa važećim normama i propisima, instrukcijama i uputstvima za upotrebu.









### Napomena

Informacije koje se nalaze u ovom katalogu mogu biti netčne, nepotpune ili mogu sadržati štamparske greške. Sve informacije su podložne izmenama ili dopunama bez prethodnog upozorenja. AVE S.p.A zadržava pravo da u bilo kom trenutku i bez prethodnog upozorenja izvrši izmenu i/ili unapredi proizvode i/ili programe opisane u ovom katalogu.

**DOMINA 2012** Realizzazione:

Area Comunicazione, Marketing e Pubblicità







## SISTEM HOTELSKOG MENADŽMENTA

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# Domina Hotel, one single system

### **RELIABILITY**

The hotel system designed by AVE is not only aesthetically pleasant but also a guarantee of reliability. Each room can be monitored by the central computer installed at the reception. In case of failure of the central computer all the devices continue to work, and while waiting for the failure to be repaired only the remote monitoring of the rooms is lost. The system is at its best when all the devices are working but each device will continue to work in case of failure of the other ones. In addition, each room in the system, though connected to the main network, works as a separate unit to avoid that a single failure may cause a general failure of the hotel.

### **TECHNOLOGY**

All products designed by AVE for hotel management use the contactless Mifare and 125kHz 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.

### **ELEGANCE**

The plates are fully customizable and can be configured according to your requirements. The plates can be marked with logo, room number and any other indications for a further touch of elegance and a personal and incomparable style.

Plates and devices are available in different materials and finishings.

### INTEGRAZIONE

Domina Hotel System by AVE can be integrated with DOMINAplus home automation (touch screen, controls and actuators).

Furthermore by using the dedicated software interface can be integrated with the invoicing system "Opera" by Micros Fidelio and centralized AC system VRV/VRF of "Daikin" and "Mitsubishi".







# for all hotel applications



### **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 you can also check and manage energy consumptions for saving purposes. All this means more satisfied customers, greater efficiency and less running costs.

### **SCALABILITY**

The Domina Hotel system by AVE can satisfy all needs in terms of costs and performances. For small hotels the system offers simple and cheap solutions to satisfy simple requests. In hotels of larger size the system can meet ever increasing requirements such as the total online monitoring of rooms and all other environments. And for those who want to expand... no problem, with few updates Domina Hotel by AVE adapts to the growing structure, with no need to change what already exists and giving you the possibility to preserve your investments.

### **COMFORT**

The devices for hotel management 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 wants to be disturbed. The chambermaid will not ring at or open the door while the customer is in the room.

By the remote control the customer can activate all devices (loads) while sitting comfortably in his chair.

A simple touch is enough to realize that all the rest is old fashioned, outdated, forgotten. Ave Touch is the incredible range giving the most advanced technology a hint of physical and tactile elegance. Ave Touch obeys your commands and turns your dreams into desires. You can touch, hear, look: now your dreams are true.









Customizable customer card for room access





AVE TOUCH 3+3 with outdoor transponder card reader can be customized with room number and hotel logo









AVE TOUCH controls with customizable and interchangeable symbols customizable with hotel logo



AVE TOUCH signalling with interchangeable and customizable symbols. can be customized with hotel logo















AVE TOUCH
"Wall lined"
A special box enables to wall-mount the device at the wall's level and only the beautiful surface of Ave Touch is visible.

AVE TOUCH controls with selectable touch sensitivity. Can be customized with hotel logo





We were given the possibility to choose and appreciate. Ave Life 44 complies with this need by offering its products a combination of technology, design and sophisticated materials, a real joy for our eyes.



Indoor transponder card reader



LIFE 44
Removable emergency lamp
VERA 44 glass plate customizable with hotel logo



LIFE 44
Integration with domotic controls and actuators











Vera 44 glass plate Ideal for use with AVE TOUCH devices. Can be customized with hotel logo.

The glass plate that makes every room elegant and stylish.



electronic thermostat

ZAMA 44 metal plate which can be painted and customized with hotel logo.

A precious frame for all but ordinary settings.







Simple and gratifying. With a wide range of colours, practical and convenient, this is the right solution for a bright and cheerful system.



Personal 44 has a modern design and can be supplied in several modern colours with glint effect. It is also available in a transparent version with customizable graphics and colours. Graphics can be customized also by the final customer by a special software freely available on www.ave.it.

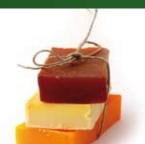


Removable emergency lamp VERA 44 glass plate customizable with hotel logo



Outdoor transponder card reader













TECNOPOLIMERO 44 plate customizable with hotel logo

Tecnopolimero 44, suitable for all types of ambience, integrates all the innovations of System 44





Shaver socket VERA 44 glass plate, customizable with hotel logo



VERA 44 for round box the ideal solution for reconstructions customizable with hotel logo







### Installation notes for Domina Hotel

### RULES FOR INSTALLATION

The general rules for installation are provided for by the standards in force, in particular those on distances with other systems or appliances.

Pipes are generally laid after the other systems such as heating/air conditioning, hydraulic and sanitary systems, vacuum system, etc.

In the case of floor-heating heating system, pipes are laid before it and under the heating pipes to prevent overheating of cables.

All cables must be installed in compliance with the installation requirements and specifications and the standards in force to guarantee proper insulation between power supply cables and signal cables to prevent disturbances.

Provided that they are not in conflict between the directions above, the following instructions must also be followed:

- Bus cables must be installed in ducts separate from LV ones;
- Cables must be laid in a way to reduce all disturbances;
- keep the greatest possible distance between disturbing cables (for ex. EMF, antennas, etc.) and Bus cables which must not be subject to disturbance;
- do not install disturbing cables and cables which must not be subject to interferences side by side and in case of intersection it must be made perpendicular-ly:
- use twisted and shielded signal wires to limit electromagnetic emissions and increase immunity, bus cable supplied by AVE S.p.A. item CVAVEBUS;
- Wiring must be carried out in a workmanlike in compliance with the rules for traditional systems and provided for by the current standards.
- When installing the ARMbus line, a bus line connecting the room control unit to all peripheral units of the hotel management system (item 44..GA01-M/T, item 44..GA30-M/T and item 44..GA52-T), wiring must be of the In and Out type according to the following colours:

Green wire (Green-Black couple): must be connected to terminal "A" of Green connector; Black wire (Green-Black couple): must be connected to terminal "B" of Green connector; Red wire (Red-Black couple): must be connected to terminal "+" of black connector; Black wire (Red-Black couple): must be connected to terminal "-" of black connector;

ARMbus room bus

Power supply of devices

### **Example of Stand-Alone system**



Green-Black couple used for ARMBUS connection. GREEN connector

**Use of CVAVEBUS cable:** 



Red-Black couple used for 12Vdc auxiliary power supply of devices.
BLACK connector





- Do not make knots, rings or coils with the shield near the card readers;
- Do not connect the cable shield to earth but to the GND terminal of the control unit;
- After connecting all wires put the plastic protection of the removable terminal block of the devices back in place and make sure to avoid short circuits between the power supply and bus connectors;
- When installing the NETbus line, a bus line connecting all the CPU of the hotel management system (Blue connector of item 53AR01-485, item 53AR02-485 and item AR-NET01), wiring must be of the ln and Out type according to the following colours:

Green wire (Green-Black couple): must be connected to terminal "A" of Blue connector; Black wire (Green-Black couple): must be connected to terminal "B" of Blue connector; Black wire (Red-Black couple): must be connected to terminal "GND" of Blue connector

NETbus monitoring bus

**Use of CVAVEBUS cable:** 

Green-Black couple wires used for NETbus connection, Green wire for signal "A" and Black wire for signal "B"

Red-Black couple wires, use the Black wire for GND

# Example of Network system CAT 5(a) Ethernet 53AR01-485 ARMbus line (item CVAVEBUS)

- Do not connect the cable shield to earth:
- On the blue connectors (NETbus) of the network interface item AR-NET01 and the last CPU of the bus line (item 53AR01-485 or item 53AR02-485) a line termination resistor R=120 ohms 1/4 W must be installed between terminals A and B (supplied with AR-NET01);
- The PC used for monitoring the hotel management system must be used only for this purpose and must be protected by means of a UPS system.
- The remote assistance service is available (for application and costs contact the sales network) provided that the PC used for monitoring is connected to the internet and has a remote control software installed;
- The connection between the PC for monitoring and the AR-NET01 network interfaces can be made using the CAT.5 cable configured as follows:



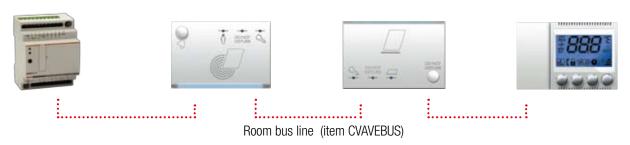
Note: AVE Spa reserves the right to update and/or change the content of this document without prior notice to the user. Please check for updates at www.ave.it

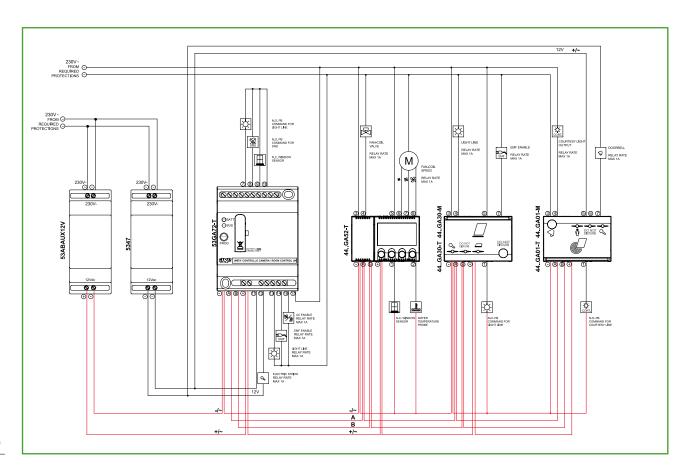
If the system integrates DominaPlus home automation, make reference to installation notes in pages 44 and 45

# Hotel Management with MIFARE technology

Summary table for Hotel System – MIFARE technology									
RANGES	External reader	Internal reader	Thermostat	Control unit	Interface	Programmer	Software	Card	
MIFARE stand-alone	441GA01-M (DomusTouch) 442GA01-M (Life Touch)	441GA30-M (Domus Touch) 442GA30-M	441GA52-T (Domus Touch) 442GA52-T	53GA72-TM	-	SCR-ALBM1	SFW-ALB04	44339CHM-M (Master) 44339CHU-M	
MIFARE Network	443GA01-M (Allumia Touch) 442GA02-M (AveTouch)	(Life Touch) 443GA30-M (Allumia Touch)	(Life Touch) 443GA52-T (Allumia Touch)	53AR01-485 53AR02-485	AR-NET01	SCH-ALBIVIT	SFW-ALB05 SFW-ALB06 SFW-ALB07	(User) 44339CHU-MB (User)	

### **Hotel management with Stand Alone configuration**

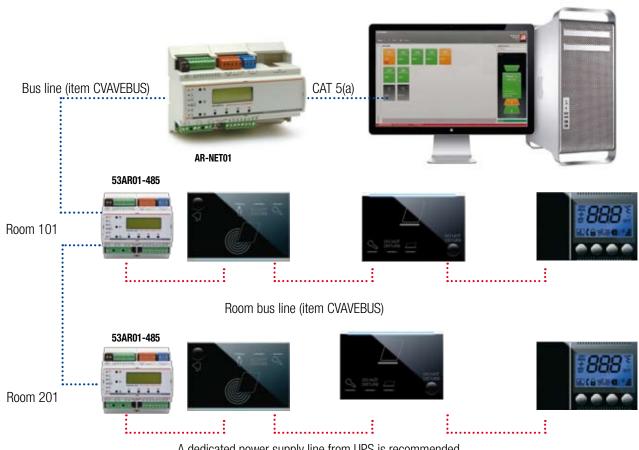




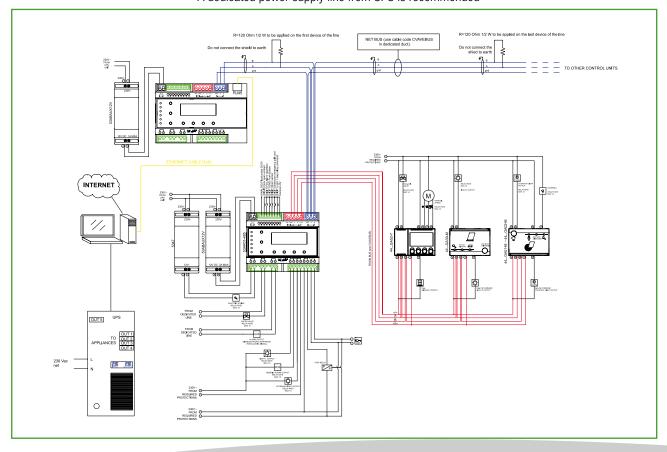




### Hotel management with network configuration



A dedicated power supply line from UPS is recommended



# Hotel Management with MIFARE technology components for network system

### TECHNICAL FEATURES

# Hotel control unit 53AR01-485 53AR02-485

The 53AR01-485 device is a room control unit for management of accesses (booking/check-in/check-out), all functions concerning temperature control, alarm management, transit management, in addition to all functions for energy saving. Besides management of all room functions, this control unit can communicate with the devices installed in the room (readers, thermostats, transmitters and receivers for load operation), the domotic devices, and it is also able to interface the room with the server of the monitoring system.

The 53AR02-485 device is the control unit managing the common areas (such as corridors) whose functions include temperature control, alarm control and all functions for energy saving. It also manages the access to some areas by means of readers which are used as common access points (max 4 accesses), the control of domotic devices, and it is also able to interface the common area with the server of the monitoring system.

### **Electrical data**

With DC power supply

- Supply voltage: + 12Vdc ±25%
- Power consumption when in standby status (@+12Vdc): ≤ 150mA
- Maximum power consumption (@+12Vdc):
   ≤ 400mA

### With AC power supply

- Supply voltage: + 12Vac ±35%
- Allowed frequency: 50 ÷ 60Hz
- Power consumption when in standby status (@ +12Vac): ≤ 300mArms
- Maximum power consumption (@+12Vac): ≤ 600mArm

### **Weather conditions**

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

### Mechanical features

- Enclosure: 6 DIN bar modules (106 w x 91h x 58.5 d) mm
- Protection degree: IP40
- Terminal blocks: 4x 8 poles 12A 250V

### **Compliance with the standard**

• EMC Directive 2004/108/EC

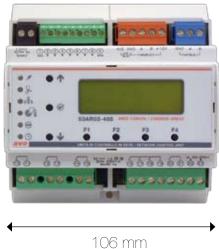
According to harmonized standards EN 50090-2-2:1996

- +A1:2002 + A2:2007
- LV Directive 2006/95/FFC

According to harmonized standards EN 50950-1:2006

### DIMENSIONS OF ROOM CONTROL UNIT/COMMON AREAS AND ETHERNET INTERFACE

91 mm



106 mm (6 DIN modules)



160 mm (9 DIN modules)



Mod.

Info





53AR01-485 53AR02-485



Warning: For installation refer to installation notes

Description

6 DIN modules

6 DIN modules

1 DIN module

9 DIN modules

Hotel control unit – version for room management

To be used as a step-by-step relay for EMF activation

Step-by-step relay with 230Vac coil In 16A power circuit 250Vac 2NO

Hotel control unit – version for common areas

Ethernet interface for network system

Silencing device for AC electrolocks

Code

53AR01-485

53AR02-485

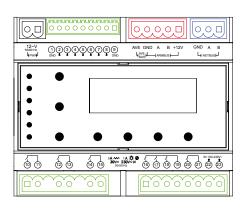
532RP-230

AR-NET01

GADS01

### AR-NET01

### 53AR01-485 TERMINAL BLOCK



Terminal	Description
12V	Nonpolarized input for power supply
1	Input reference (GND)
2	Input 0-10V to be used to connect a flooding probe
3	LOCK RELEASE input
4	FIRE REPETITION input
5	DO NOT DISTURB PUSH-BUTTON input
6	DOOR CONTACT input
7	BATHROOM EMERGENCY PULL_CORD input
8	ROOM LIGHT input
9	Input reference (GND)
AVE	AVEBus domotic Bus positive
GND	Ground for AVEBus and ArmBus
А	Line A of ARMBus room Bus
В	Line B of ARMBus room Bus
+12V	ARMBus room Bus power supply positive
GND	Ground for AVEBus and ArmBus
Α	Line A of NETBus monitoring Bus
В	Line B of NETBus monitoring Bus
10-11	LV (230Vac) and SELV (<50Vdc) output - ELECTROLOCK -
12-13	LV (230Vac) and SELV (<50Vdc) output - WATER VALVE-
14-15	LV (230Vac) and SELV (<50Vdc) output - DIRECT CONTROL -
16-19	LV output contact pole (230Vac) - ROOM LIGHT -
17-19	LV output contact pole (230Vac) – ACTIVE ALARM –
18-19	LV output contact pole (230Vac) - DIRECT CONTROL -
20-21	LV output (230Vac) for control of room STEP-BY-STEP RELAY
22-23	LV input for detection of 115/230Vac power presence

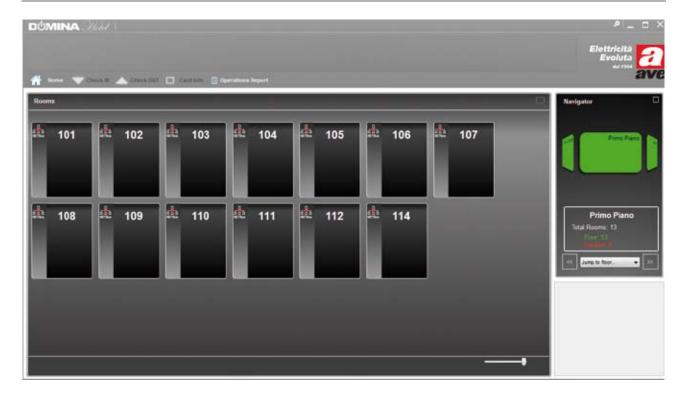
# Hotel Management with MIFARE technology components for network system

TECHNICAL FEATURES

Monitoring software SFW-ALB05 SFW-ALB06 SFW-ALB07 The hotel management software designed by AVE has been created to ensure full and prompt control in hotels where the Domina Hotel system is installed. To make the software even easier and quick to use, the number of pages has been minimized allowing the new staff members to receive mini-

mum training and be ready to use the system very quickly. With AVE software for the Domina Hotel system everything is under control.

### **GENERAL VIEW**



Room monitoring is very simple and intuitive. Each room is represented by a card with a side band which takes different colours depending if the room is occuppied, free or not booked, while some icons inside the card give more detailed information. All information one needs to know on the rooms are here and there is no need to open other windows. If the hotel has several floors, a menu on the right allows the user to go from one floor to another. In the bigger screen the user can choose to display a smaller number of bigger cards or a larger number of smaller cards. Each room can be individually checked to the slightest detail. The screen which is dedicated to each room allows to control each single component which is connected to the hotel network and check its operating status. Each operating parameter can be changed by the authorized personnel: heating/cooling temperatures, lights and shutters and even







Code	Description	Mod.	Info
SFW-ALB05	Monitoring software for network installations with connection of (room and/or common area control units)	max. of 20 de	evices
SFW-ALB06	Monitoring software for network installations with connection of (room and/or common area control units)	max. of 50 de	evices
SFW-ALB07	Monitoring software for network installations with connection or devices (room and/or common area control units)	f more than 5	0

### **ROOM DETAIL**



door opening which can be controlled from the PC.

A room can also have its personal phototograph. Your rooms are all different? No problem, each room can have in its screen the photograph/drawing of its real layout. AVE software allows total customization and full control of all facilities.

### Hotel Management with MIFARE technology Domotics for network system

DOMINA Hotel is not only an advanced system for hotel management which can be perfectly matched with the System 44 series, but also represents an important change in the management of hotel facilities.

DOMINA Hotel is a guarantee of energy saving, comfort, practicality and design. Thanks to the integration of the main domotic functions of DOMINA plus series, the system can offer many versatile and flexible functions to meet the needs of the most demanding hotel facilities and satisfy all requirements in terms of ergonomics.



Automatic control of courtesy light and manual control of room lights by DOMINA plus domotic controls and actuators



Local and/or remote control of room lights and dimming by DOMINA plus domotic controls and actuators.



Local and/or remote control of motorised roller shutters and curtains by DOMINA plus domotic controls and actuators.



Control of automatic and manual technical alarms or status signalling by DOMINA plus domotic controls.



Management of 4-pipe thermoregulationl with automatic control, based on the detected temperature and the customer presence into the room, of zone valves by DOMINA plus domotic actuators.



Management of room scenarios which can be called remotely from the monitoring PC or manually by DOMINA plus domotic controls.





# Correspondence between room domotic functions and corresponding control devices

FUNCTIONS AND CORRESPONDING	CONTROL DEVICES						
ACTUATORS	53AR01-485 53AR02-485	442ABTC1	44ABT1	44ABT2	ABINO2	44ABIN	44AB68
ABR01 44ABR1 44ABR1-M 44ABR1CL 44ABR2 53ABR4	0		0	0		0	0
44ABDI + 53DIM010	0	0	0	0	0	0	0
44ABRT01							
ABRTM 44ABRTM01 53ABRTM	0						
44ABTA	0						
LIGHTING ON-OFF OPEN-CLOSE CURTAINS AND ROLLER SHUTTERS	0	0	0	0	0	0	0

# Hotel Management with MIFARE technology domotic components for network system

### TECHNICAL FEATURES

### 44..ABRTM01

The 44..ABRTM01 device is a thermoregulation actuator which can control valves by a 10A 230V potential-free contact.

The Domina Hotel system allows to manage 2 thermoregulation actuators for controlling the valves of the 4-pipes air-conditioning system. One actuator configured with address 10 controls the opening and closing of the solenoid valve for hot water delivery while the other actuator configured with address 20 controls the opening and closing of the valve for cold water delivery of the first temperature control zone (and addresses 30 and 40 for the second zone up to D0/E0 for the seventh zone).

The set and detection of room temperature as well as the speed control of a fan coil unit (if any) are controlled by the room thermostat item 44...GA52-T.

### **Technical data**

- Enclosure: System 44 modules (22.5 w x 45 h x 46.5 d) mm
- Protection degree: IP41 if completed with plate and installed in the corresponding flush-mounting box.
- Reference temperature and relative humidity: 25°C
   RH 65%
- Operating amb. temp. range: -10°C to +50°C
- Maximum Relative Humidity: 90% @ 35°C
- Max. Height: 2000 m a.s.l.
- Auxiliary power supply

Rated voltage: 12Vac/dc Allowed variation: 10.5V ÷ 14V

Power consumption @ 12Vdc: 3.4 mA MAX Power consumption @ 12Vac: 6.5 mA MAX

### **Connections**

- Terminal 1: BUS positive
- Terminal 2: GND
- Terminal 3: auxiliary power supply positive
- Terminal 4: auxiliary power supply negative
- Terminal 5: relay contact
- Terminal 6: relay contact

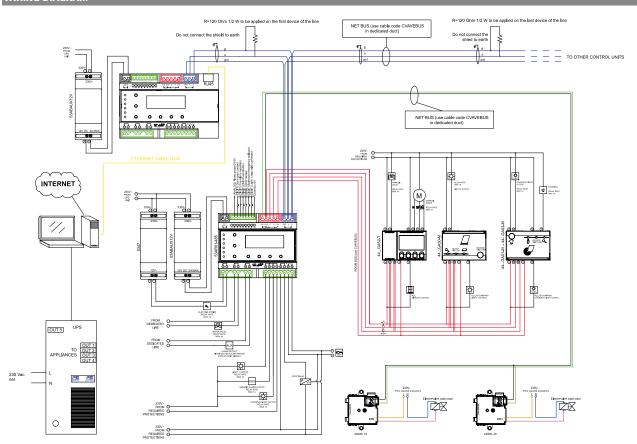
### Characteristics of controllable electric load

- Noninductive load (cosφ 1): 10A @ 230Vac
- Inductive load (cosφ 0.4): 4A @ 230Vac

### **Description of the front side**

An optical signal is visible on the front side indicating the operating and programming status of the device.

### **WIRING DIAGRAM**







		Code	Description	Mod.	Info
		442ABRTM01	Temperature control actuator – Life Touch series	2	
		441ABRTM01	Temperature control actuator – Domus Touch series	2	
		443ABRTM01	Temperature control actuator – Allumia series	2	
		53ABRTM	Temperature control actuator for fan coil units	2 DIN	
442ABRTM01	441ABRTM01	ABRTM	Temperature control actuator for flush-mounted box		



443ABRTM01



ABRTM



53ABRTM

# AVEbus line (item CVAVEBUS) NETbus line (item CVAVEBUS) Hot water valve thermoregulation CAT 5(a) Addr. 10 Ar-NET01 Addr. 20 Addr. 20 Addr. 20 Armbus line (item CVAVEBUS)

# Hotel Management with MIFARE technology domotic components for network system

### TECHNICAL FEATURES

### **44..ABTA**

The 44...ABTA device is a transmitter for alarm signals enabling management of technical alarms and call for assistance. The digital input of the device can be set in the normally closed or normally open modes.

When integrated into the hotel management system, this device allows to detect the IN input status and send an alarm message to the room control unit (for example a "call for assistance") and at the same time control a domotic actuator (53ABR4, 44..ABR1, 44..ABR2 and ABR01) for activation of an optical/acoustic signal. All these functions can be controlled and followed from the monitoring computer.

Combined with Domina Hotel system, the device enables the user to control:

- The call for "Assistance" with memory (ID bus device 01)
- The technical alarm "Vacuum system" with memory (ID bus device 02)
- The technical alarm "General" with memory (ID bus device 03)
- The technical alarm "Vacuum system" without memory (ID bus device 04)  $\,$
- The technical alarm "General 1" without memory (ID bus device 05)

- The technical alarm "General 2" without memory (ID bus device 06)
- 8 "Auxiliary" alarms with memory (ID bus device 30 to 37)
- 8 "Auxiliary" alarms without memory (ID bus device 38 to 3F)
- 16 status inputs (ID bus device 40 to 4F)
- The devices must be programmed with function 2.

### **Technical data**

- Enclosure: 1 System 44 module (22.5 w x 45 h x 46.5 d) mm
- Protection degree: IP41 if completed with plate and installed in the corresponding flush-mounting support.
- Reference temperature and relative humidity: 25°C RH 65%
- Operating amb. temp. range: -10°C to +50°C
- Maximum Relative Humidity: 90% @ 35°C
- Max. Height: 2000 m a.s.l.
- Auxiliary power supply

Rated voltage: 12Vac/dc

Allowed variation: 10.5V ÷ 14V

Power consumption @ 12Vdc: 2.2 mA MAX Power consumption @ 12Vac: 5.8 mA MAX

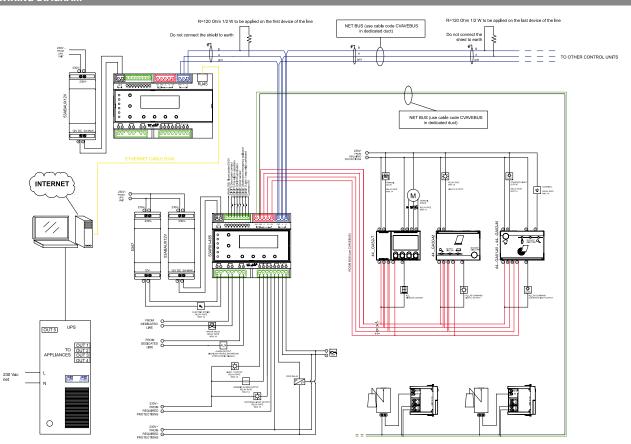
### Connections

- Terminal 1: BUS positive
- Terminal 2: GND
- Terminal 3: auxiliary power supply positive
- Terminal 4: auxiliary power supply negative
- Terminal 5: IN input
- Terminal 6: RESET input

### **Description of the front side**

An optical signal is visible on the front side indicating the operating and programming status of the device.

### **WIRING DIAGRAM**







Code	Description	Mod.	Info
442ABTA	1-channel transmitter for alarm signals Life Touch series	1	
441ABTA	1-channel transmitter for alarm signals Domus Touch series	1	
443ABTA	1-channel transmitter for alarm signals Allumia series	1	

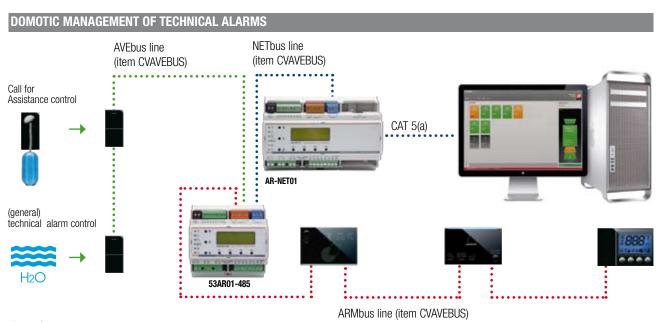
442ABTA



441ABTA



443ABTA



Attention: Contacts must be interfaced using a shielded and twisted cable

# Hotel Management with MIFARE technology domotic components for network system

### TECHNICAL FEATURES

### 44..ABRT01

The 44...ABRT01 device is an actuator for motorised roller shutter command with local control through which motorised shutters can be managed. The two power outputs installed on the device are interlocked and potential-free.

When integrated into the hotel management system, this device allows to control the motorised roller shutters both by means of a local device and a domotic control device installed, for example, near the headboard. The whole system is visible and controllable from the monitoring computer. The room control unit which is required for the domotic functions, can also be used by means of scenario transmitters to automatically open the roller shutters when the customer enters the room and close them when the customer leaves the room.

By integrating the device into the Domina Hotel system it is also possible to control 16 actuators for motorised roller shutter control each with address from 30 to 3F

### **Technical data**

- Enclosure: 2 System 44 modules (45 w x 45 h x 46.5 d) mm
- Protection degree: IP41 if completed with plate and installed in the corresponding flush-mounting supnort.
- Reference temperature and relative humidity: 25°C RH 65%
- Operating amb. temp. range: -10°C to +50°C
- Maximum Relative Humidity: 90% @ 35°C
- Max. Height: 2000 m a.s.l.

• Auxiliary power supply Rated voltage: 12Vac/dc Allowed variation: 10.5V ÷ 14V

Power consumption @ 12Vdc: 18.6 mA MAX Power consumption @ 12Vac: 18.5 mA MAX

### **Connections**

- Terminal 1: BUS positive
- Terminal 2: GND
- Terminal 3: auxiliary power supply positive
- Terminal 4: auxiliary power supply negative
- Terminal 5: relay contact for ascend control
- Terminal 6: relay contacts common
- Terminal 7: relay contacts common
- Terminal 8: relay contact for descend control

### **Characteristics of controllable electric load**

- Noninductive load (cosφ 1): 10A @ 230Vac
- Inductive load (cosφ 0.4): 4A @ 230Vac

### **Description of the front side**

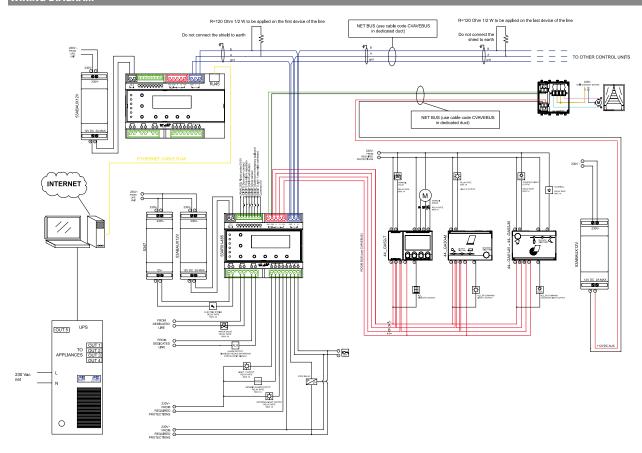
An optical signal is visible on the front side indicating the operating and programming status of the device.

### **Operating modes and parameters**

The receiver operates according to two base parameters:

- execution time (full closing or opening of roller shutters) set on the receiver
- delay of execution time of the device relay set by means of parameter 1

### **WIRING DIAGRAM**







-
-

442ABRT01

Code	Description	Mod.	Info
442ABRT01	Actuator for motorised roller shutter control with local command Life Touch series	2	
441ABRT01	Actuator for motorised roller shutter control with local command Domus Touch series	2	
443ABRT01	Actuator for motorised roller shutter control with local command Allumia series	2	

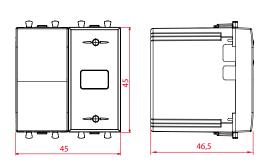


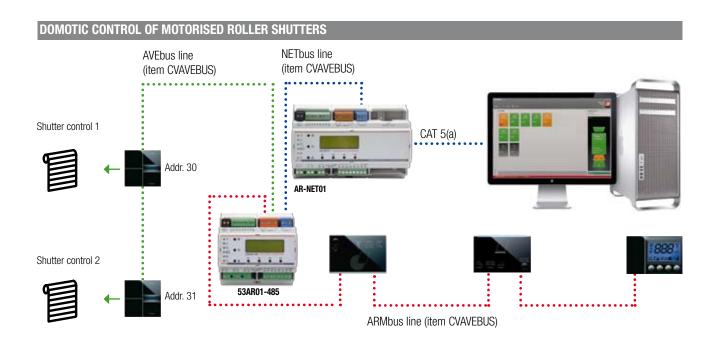
441ABRT01



443ABRT01

### **OVERALL DIMENSIONS**





# Hotel Management with MIFARE technology domotic components for network system

TECHNICAL FEATURES

### 442ABT1 442ABT2 442ABTC1

### 44..ABDI 53DIM010

### 44..ABR.. 53ABR4 ABR01

The 442ABT1, 442ABT2 and 442ABTC1 devices are domotic transmitters which can control all receivers of DOMINA plus family according to setting.

When integrated into the Domina Hotel system, they allow to control all domotic actuators installed and also to recall the scenarios pre-programmed in the room control unit:

- "Lights OFF (ID A0 Function OFF Stop)
- "Lights ON (ID A0 Function ON Start)
- "Roller shutter closing" (ID A1 Function OFF Stop)
- "Roller shutter opening" (ID A1 Function OFF Stop)

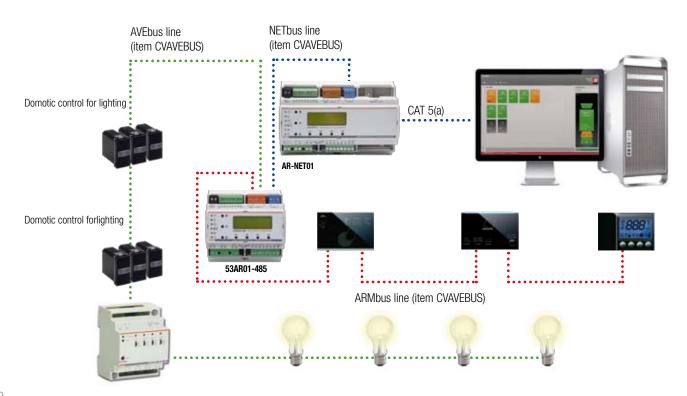
The 44..ABDI device combined with the 53DIM010 form the domotic actuator kit for dimmer lights to be used in the room to obtain light dimming.

When integrated into the Domina Hotel system, they enable not only to control 16 dimmer lights (ID bus device from 30 to 3F) by means of control devices and the scenarios "Lights ON" and "Lights OFF", but also to check and modify the status from the monitoring computer.

The 44..ABR.., 53ABR4 and ABR01 are domotic actuators for lighting used in the room to obtain additional light sources.

When integrated into the Domina Hotel system, they enable to control 16 general lights (ID bus device from 30 to 3F) by means of control devices and the scenarios "Lights ON" and "Lights OFF", as well as to control the courtesy light (ID bus device from 01 to 04) associated with each single outdoor card reader in order to control switching on when a valid card is used. All light sources are controlled and monitored from the monitoring computer.

### DOMOTIC CONTROL OF LIGHTS







1	-	_
20.00	-	4
bel		-4
41	-3	Min.



53ABR4



442ABDI 441ABDI 443ABDI



442ABR1CL 441ABR1CL 443ABR1CL

Code	Description	Mod.	Info
442ABTC1	AVE Touch 1-channel transmitter To use with AVE Touch plate	1	
442ABT1	1-channel transmitter To complete with 44ELA01 or 44ELA02 key	1	
442ABT2	2-channel transmitter To complete with keys	2	
42ABR1CL	1-channel actuator with local control Life Touch series	2	
441ABR1CL	1-channel actuator with local control Domus Touch series	2	
443ABR1CL	1-channel actuator with local control Allumia series	2	
53ABR4	4 independent channel actuator 8A resistive and incandescent lamps, 4A $\mbox{cos}\phi$ 0.6 inductive loads	4 DIN	
ABR01	1-channel actuator for flush-mounted box		
442ABR1	1-channel receiver – Life Touch series	1	
441ABR1	1-channel receiver – Domus Touch series	1	
443ABR1	1-channel receiver – Allumia series	1	
442ABDI	Dimmer actuator for "dimmer" commands sent by transmitters Life Touch series	2	
441ABDI	Dimmer actuator for "dimmer" commands sent by transmitters Domus Touch series	2	
443ABDI	Dimmer actuator for "dimmer" commands sent by transmitters Allumia series	2	
53DIM010	$40 \div 500 W$ incandescent lamps, $40 \div 300 VA$ 230Vac 50Hz toroidal ar laminated transformers — Can be dimmed by means of a $10 k\Omega$ potentiometer (not supplied) or $0 \div 10 Vdc$ signal from Domina 44ABDI actuator	nd	

# Hotel Management with MIFARE technology components for Stand-Alone system

### TECHNICAL FEATURES

# Room control unit 53GA72-TM

The 53AR01-485 device is a room control unit that completes the stand-alone hotel system. It can control its inputs and outputs autonomously and can also communicate with the various slave devices of the same hotel range (outdoor reader, indoor reader and room thermostat).

The room control unit is provided with four auxiliary inputs for detecting the status of potential-free contacts and four relay outputs. It is also provided with an internal clock (RTC or REAL TIME CLOCK) with lithium buffer battery that enables to manage a clock/calendary which is necessary when the card expiry or thermostat night saving functions are used.

Two LEDs are present on the front side of the control unit:

a green LED (BATT): indicates the power supply status of the device. The light is fixed to indicate that the operation is OK. The LED flashes to indicate that the battery of the RTC group has to be replaced (below the minimum operating level) or is not present.

A red LED (BUS): indicates the status of serial communication. It switches on to indicate that at least one device has been detected on the room bus (polling response).

### Electric data

With DC power supply

- Supply voltage: + 12Vdc ±25%
- Power consumption when in standby status (@ +12Vdc):  $\leq 75mA$
- Maximum power consumption (@ +12Vdc):  $\leq 200mA$

### With AC power supply

- Supply voltage: + 12Vca ±30%
- Allowed frequency: 50 ÷ 60Hz
- Power consumption when in standby status (@ +12Vac): ≤ 150mArms
- Maximum power consumption (@ +12Vac):  $\leq$  300mArms

### **Weather conditions**

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

### **Mechanical features**

- Enclosure: 4 DIN modules (69.5 w x 89.5 h x 65 d) mm
- Protection degree: IP40
- Terminal blocks: 10 poles + 8 poles 12A 250V
- Programming connector: stereo female jack d = 2.5mm

### Compliance with the standards

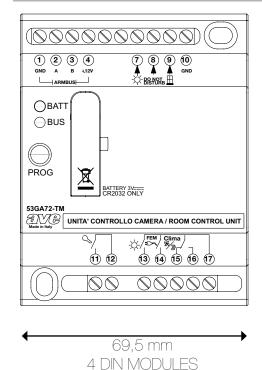
• EMC Directive 2004/108/EC

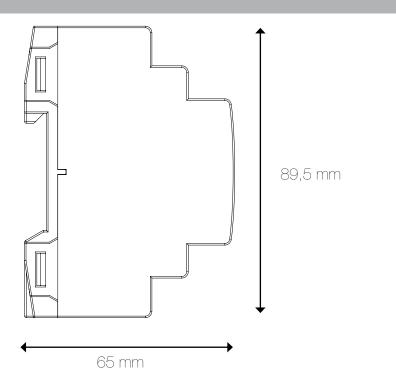
According to harmonized standards EN 50090-2-2:1996

- +A1:2002 + A2:2007
- LV Directive 2006/95/EEC

According to harmonized standards EN 60950-1:2006

### **OVERALL DIMENSIONS**











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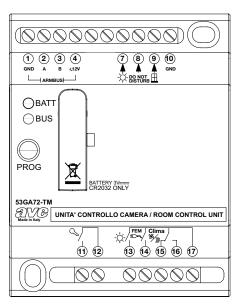
Code	Description	Mod.	Info
53GA72-TM	Room control unit for stand-alone systems 4 DIN modules		
GA-RTC	Portable device for date and time programming. Allows replacing a portable PC during update of date and time of room control unit		
GADS01	Silencing device for AC electrolocks		

### Attention:

For installation refer to installation instructions



### TERMINAL BLOCK



Terminal	Colour	Description	
1	Green	- Power supply	
2	Green	"A" RS-485	
3	Green	"B" RS-485	
4	Green	+ Power supply	
7	Green	Room Light Input	
8	Green	DO NOT DISTURB Input	
9	Green	Thermoregulation Consent Input	
10	Green	GND (Inputs reference)	
11 e 12	Green	Electrolock Control Output	
13	Green	Room Light Control Output	
14	Green	Load control Output (EMF)	
15	Green	Thermoregulation Activation Control Output - NC contact	
16	Green	Thermoregulation Activation Control Output - NO contact	
17	Green	Common for terminals 13, 14, 15 and 16	

### **Hotel Management with MIFARE technology** Common components

TECHNICAL FEATURES

### Card programmer **SCR-ALBM1**

The SCR-ALBM1 device is a MIFARE card programmer which 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 for programming the cards and/or all the devices of the hotel management system.

The SCR-ALBM1 works if connected to a PC provided with the specially-supplied card programming software. There are two types of software: a user-friendly software for final users and a second technical software for installers and/or technical service centres.

### Light signals (led)

• L1 (Red): NOT EXEC



Indicates the last command which was sent was not executed properly.

• L2 (Green): **EXECUTED** Indicates the last command which was sent was

executed properly. L3 (Yellow): WAIT

Indicates the programmer is free and can receive new commands (flashing light) or a previous command is being completed (fixed light).

 L4 (Yellow): TX ( Indicates a communication is under way from SCR-ALBM1 programmer to the PC by USB inter-

L5 (Yellow) RX

Indicates a communication is under way from the PC to the SCR-ALBM1 programmer by USB inter-

### **Electric data**

- Supply voltage (DC):
- +5Vdc ±10% self-powered through USB port
- Power consumption when in standby status (@
- +5Vdc): ≤ 50mA
- Maximum power consumption (@ +5Vdc): ≤ 100mA
- Compatibility USB interface: 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% @ + 35°C
- Max. Height: 2000 m a.s.l.

### **Mechanical features**

- Enclosure: 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)
- ARMBus interface: Stereo jack 2.5 mm

### Mode of operation

The SCR-ALBM1 transponder card programmer can be used as a simple programmer for cards used for MIFARE hotel management, both in stand-alone and network mode, or in combination with an additional software (for technicians and/ or installers) as a programming device of all modules for hotel management. It allows updating the management firmware and/or changing the configuration parameters (in the EEPROM) of the various devices of MIFARE hotel series. It also allows traffic monitoring on the room bus (Sniffer) reporting all messages and/or commands stored on the

### Card 44339CHM-M 44339CHU-M

MIFARE cards for hotel management have a 1 KB rewritable memory.

### 44339CHM-M master card

The system requires a Master card is used for all operations of prearrangement and/or programming of cards. This Master card is provided with its own "Hotel Code" that the Master card transfers to the reader together with all other data during direct programming, and a "Room Progressive code" which is automatically incremented by the reader after the first setting. Systems with different zones and/or sub-systems can be used provided a Master card is supplied for each combination (for ex. 3 zones and 2 sub-systems = 6 Master cards). Note: The Master card (or Master cards) identifies the systems and

must then be kept for other configurations.

The system code received by the Master card (together with the sub-system code and the zone code) is saved by the reader and transferred to all the cards programmed by the reader when the customer cards and/or service cards are programmed. In the case of failure or if the SCR-ALBM1 programmer is not available, all access card programming operations can be performed by means of the Master card according to the reader instructions.

### 44339CHU-M user card

User cards are cards allowing an access or a service. They can be of different types: CUSTOMER CARDS, CHAMBERMAID CARDS, MAINTENANCE CARDS, PASSE-PARTOUT CARDS (FOR SAFETY PURPOSES), SUPER-GUEST CARDS, SUB-MASTER CARDS, COPIES OF MASTER CARDS, ERASER

In the network version other cards are also available; DIRECTOR, ROOMKEEPER, RECEPTIONIST, BAR-MAN/PIANO BAR, SUPPLIER, SERVICE USER.





Code Description Mod. Info

**SCR-ALBM1** MIFARE card programmer

SFW-ALB04 software included

Nota:

The SFW-ALB04 software is compatible with Windows XP operating system or later versions — architecture x86 or x64



SCR-ALBM1

### SFW-ALB04 SOFTWARE

ROOM STATUS:

The software by AVE for the stand alone system allows the user to know at any moment which rooms are booked and for how long. The room management system allows to have full control thus preventing unpleasant inconvieniences to customers, and also to create cards with a date of expiry.





The user control function allows to have full control and create the access card to rooms so that the hotel staff can carry out its work easily. Chambermaids will enter the rooms to make up but only if the customer is not in the room. The maintenance staff will have access to all rooms except if the customer is in the room, etc.



ave
4.4

Cod.	Descrizione	Mod.	Info
44339CHM-M	MIFARE Master card Card format: ISO7816		
44339CHU-M	MIFARE User card Card format: ISO7816		



44339CHU-M

# Hotel Management with MIFARE technology Common components

TECHNICAL FEATURES

### Room outdoor reader 44..GA01-M 442GA02-M

Outdoor readers with MIFARE technology allow access control to the rooms and other service rooms of the hotel. They can work both in Stand Alone mode and in Network mode according to their setting and installation.

MIFARE technology allows to generate cards with the highest security standard that can also be integrated with other services (such as the possibility to integrate in the cards provided by AVE, payment services provided by other companies) with a reading performance at the top of the range. The devices can be set for access to 4 different types of rooms:

- ROOMS: access is authorized to all enabled customer cards and service cards in certain conditions (for example, the chambermais card works only if the room is not occupied).
- SERVICE ROOMS: access is authorized to the staff hotel cards but not the customer cards.
- COMMON AREAS: access is authorized to all service cards of the staff and authorized customers.
- DEDUCTIBLE CREDIT ACCESS: access is authorized to the enabled cards of the staff. Customer cards are autohorized if they have sufficient credit which corresponds to a certain number of accesses. At every access to the room, the device updates the card by reducing the credit.

### **Electric data**

With DC supply voltage

- Supply voltage: +12Vdc ±25%
- Power consumption when in standby status (@ +12Vdc):  $\leq 80mA$
- Maximum power consumption (@ +12Vdc):  $\leq 150mA$

With AC power supply

- Supply voltage: +12Vac ±30%
- Allowed mains frequency: 50 ÷ 60Hz
- Power consumption when in standby status (@ +12Vac): ≤ 200mArms
- Maximum electric input (@ +12Vac):  $\leq$  250mArms

### **Mechanical features**

- $\bullet$  Enclosure: 3 S44 modules (67.5 w x 45 h x 55.5 d) mm
- Maximum projection from modules lined level: 9 mm (plate lined level) for Domus100, Life44 and Allumia series; item code AveTouch 442GA02-M is hidden under the plate surface.
- Lighting of active zone: by high efficiency and ultralow-consumption blue LED
- Protection degree: IP40
- Terminal blocks: 2 + 2 + 10 poles 12A 250V
- Programming connector: stereo female jack d = 2.5 mm
- Blue light for identification in the dark

### **MIFARE technology**

- Support: ISO7816 (credit card format)
- Transponder: RFID MIFARE 13.56 MHz (standard ISO 14443 type A)

### **Weather conditions**

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

### Relay auxiliary outputs

- Maximum applicable load (AC resistive load): 5A @ 250Vac (cos\text{\$\phi\$} 1)
- Maximum applicable load (DC): 5A @ 30Vdc
- Maximum applicable load (AC inductive load): 3A @ 250Vac ( $\cos \varphi$  0.4)
- Contact (electrical) life: 50,000 operations (max load)
- Maximum (electrical) switchover frequency: 1,200 cycles/h
- Contact (mechanical) life: 5,000,000 operations
- Maximum (mechanical) switchover frequency: 18,000 cycles/h

### **Compliance with the standards**

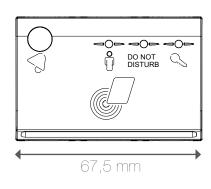
- R&TTE Directive 1999/5/EC Product Class 1. According to harmonized standrds ETSI EN 300330-2 Ver. 1.3.1 (2006-4)
- EMC Directive 2004/108/EC

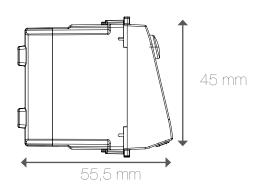
According to harmonized standards:

- ETSI EN 301 489-1 Ver. 1.6.1 (2005-09)
- ETSI EN 301 489-3 Ver. 1.4.1 (2002-08)
- EN 50090-2-2:1996 + A1:2002 + A2:2007
- LV Directive 2006/95/EEC

According to harmonized standards EN 60950-1:2006

### **OVERALL DIMENSIONS**





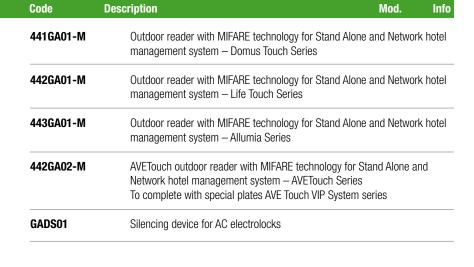






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8	to be to the second

442GA01-M

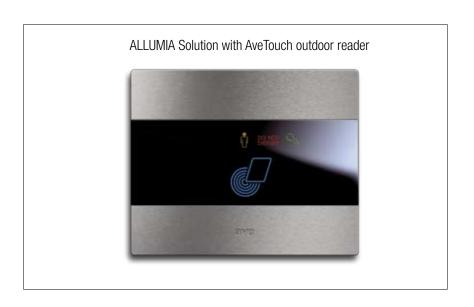




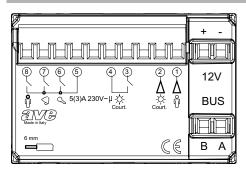
443GA01-M



442GA02-M



#### **DESCRIPTION OF TERMINALS BLOCK**



Terminal	Colour	Description
А	Green	"A" RS-485
В	Green	"B" RS-485
-	Black	- Power supply (Input common)
+	Black	+Power supply
1	Green	Room Status Input (Bell push-button for 442GA02-M)
2	Green	Courtesy Light Input
3 e 4	Green	Courtesy Light Output
5	Green	Common for terminals 6, 7 and 8
6	Green	Electrolock Output
7	Green	Bell Consent Output
8	Green	Guest Presence Output

# "Ave Touch" glass plates for VIP System customizable upon request



Note: these items must be matched with code 442GA02-M



44PVTC33BL/XX	Clear White – 6 modules (3+3)
44PVTC33GO/XX	Frosted silver grey – 6 modules (3+3)
44PVTC33NAL/XX	ToClear absolute black – 6 modules (3+3)
44PVTC33RPL/XX	Clear pompeian red – 6 modules (3+3)
44PVTC33V0/XX	Frosted water green – 6 modules (3+3)

Note: these items must be matched with code 442GA02-M + 442TC88 or 442GA02-M + 442TC76

#### **Example of customization**

Ave has created a unique system for access control for hotels which perfectly fits the other components of the electric system; it is available in five different colours.

"Customization of AveTouch System 44 plates".





Water green

Silver grey

Pompeian red

Absolute black

Clear white



3 mod





#### **CUSTOMIZATION OF AVETOUCH SYSTEM 44 PLATES**

For customization of the plates identified by codes ending with "/XX", such as the hotel plates, a special procedure must be followed.

The formats that can be customized are of two types:

- 3 modules codes 44PVCT3.../XX
- 3+3 modules codes 44PVTC33.../XX.

These plates can be customized as one likes provided the following conditions are respected:

- a) all logos/marks/symbols/writings, etc. can be placed only inside the red area (not lighted area) and/or green area (lighted area) as shown in the picture below (fig. 3, 3A, 3B, 3C);
- b) the progressive numbers of hotel rooms can be reproduced with one of the two fonts shown below and only in the areas shown in the pictures mentioned above.

The customization order must be accompanied by the drawing, stamped and signed by the buyer, made by AVE graphic department to which the following documents must be sent:

- 1. Model and colour of plate to be customized;
- 2. any logos/marks/symbols/writings, etc. to be reproduced on the plate and indication of their position;
- 3. Room numbers;
- 4. Any other data which can be useful to carry out the draft.

#### Costs

An extra-cost of 250.00 Euros must be added to the standard cost of the plates and subdivided by the number of pieces in the order, as contribution for the making of the cliché for laser applications.

#### **Customizable areas**



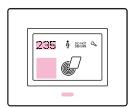


Fig. 3



Fig. 3A



Fig. 3B

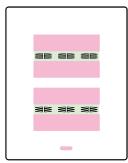


Fig. 3C









#### **FONTS**

Subway Ticker

1234567890

Subway Ticker condensed

1234567890

Times Regular

1234567890

Times condensed

1234567890

## Hotel Management with MIFARE technology Common components

#### TECHNICAL FEATURES

### Room Indoor reader 44..GA30-M

Indoor readers must be placed inside the room to allow the activation of room loads and services only when an enabled card is used. They can work both in Stand Alone and Network mode according to their setting and installation.

MIFARE technology allows to generate cards with the highest security standard that can also be integrated with other services (such as the possibility to integrate in the cards provided by AVE, payment services provided by other companies) with a reading performance at the top of the range.

The readers are equipped with two auxiliary inputs for detecting the status of potential-free contacts which respectively control the corresponding output "Room Light" and "Thermoregulation Consent". There are also four relay contacts (always potential-free) for control of "Room Light" and "Temperature Control Consent", "EMF Line Command" and "Do not Disturb" signal.

#### Electric data

- DC supply voltage: 12Vdc ±25%
- Power consumption when in standby status (12Vdc):  $\leq$  80mA
- Maximum power consumption (12Vdc):  $\leq$  150mA
- AC supply voltage: 12Vac ±30%
- Allowed frequency: 50 ÷ 60Hz
- •Power consumption when in standby status
- (12Vac): ≤ 200mArms
- Maximum electric input (12Vac): ≤ 250mArms

#### **Mechanical features**

- Enclosure: 3 S44 modules (67.5 w x 45 h x 55.5 d) mm
- Maximum projection at the module lined level: 9 mm (at plate lined level).
- Lighting of active zone: by high efficiency, ultralow-consumption blue LED
- Protection degree: IP40
- $\bullet$  Terminal blocks: 2 + 2 + 10 poles 12A 250V
- ullet Programming connector: stereo female jack d=2.5 mm

Blue light for identification in the dark

#### **Weather conditions**

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

#### MIFARE technology

- Support: ISO7816 (credit card format)
- Transponder: RFID MIFARE 13.56 MHz (standard ISO 14443 type A)

#### **Compliance with the standards**

- R&TTE Directive 1999/5/EC Product Class 1. According to harmonized standards ETSI EN 300330-2 Ver. 1.3.1 (2006-4)
- EMC Directive 2004/108/EC

According to harmonized standards:

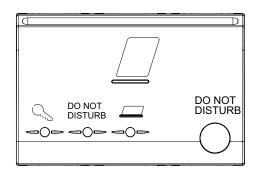
- ETSI EN 301 489-1 Ver. 1.6.1 (2005-09)
- ETSI EN 301 489-3 Ver. 1.4.1 (2002-08)
- EN 50090-2-2:1996 + A1:2002 + A2:2007
- LV Directive 2006/95/EEC

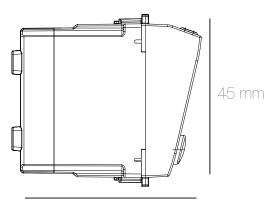
According to harmonized standards EN 60950-1:2006

#### **Relay auxiliary outputs**

- $\bullet$  Maximum applicable load (AC resistive load): 5A at 250Vac (cos $\phi$  1)
- Maximum applicable load (DC): 5A at 30Vdc
- Maximum applicable load (AC inductive load): 3A at 250Vac ( $\cos\varphi$  0.4)
- Contact (electrical) life: 50,000 operations (max load)
- Maximum (electrical) switchover frequency: 1,200 cycles/h
- Contact (mechanical) life: 5,000,000 operations
- Maximum (mechanical) switchover frequency: 18,000 cycles/h

#### **OVERALL DIMENSIONS**





67,5 mm 55,5 mm

152





	ONOT	DO NOT DISTURB
00 0	STURB /	DOTOR

441GA30-M

Code	Description	Mod.	Info
441GA30-M	Indoor reader with MIFARE technology for Stand Alor management system – Domus Touch Series	ne and Netwo	ork hotel
442GA30-M	Indoor reader with MIFARE technology for Stand Alon management system – Life Touch Series	ne and Netwo	ork hotel
443GA30-M	Indoor reader with MIFARE technology for Stand Alor management system – Allumia Series	ne and Netwo	ork hotel



442GA30-M

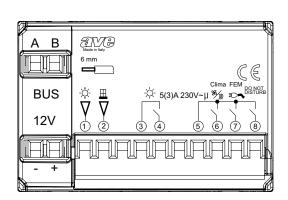


443GA30-M



**Note:** Cheap solution without card identification to be used instead of the indoor reader only for Stand-Alone systems.

#### DESCRIPTION OF TERMINALS BLOCK



Terminal	Colour	Description
А	Green	"A" RS-485
В	Green	"B" RS-485
-	Black	- Power supply (Input common)
+	Black	+Power supply
1	Green	Room Light Input
2	Green	Window Contact Input
3 e 4	Green	Room Light Output
5	Green	Common for terminals 6, 7 and 8
6	Green	Thermoregulation Consent Output
7	Green	Load Command Output (EMF)
8	Green	DO NOT DISTURB Output

#### **Hotel Management with MIFARE technology Common components**

#### TECHNICAL FEATURES

#### **Thermostat** 44..GA52-T

Thermostats are used to detect room temperature and for thermoregulation in a hotel room or in any other room. They can control their inputs and outputs in an independent way.

The thermostat can also communicate with other devices, such as a room control unit, an outodoor reader. and indoor reader and a card programmer, both with 125kHz and MIFARE technology. Thermostats can also operate in Stand Alone and Network mode according to their setting and installation.

The device is provided with two auxiliary analogue inputs (powered at +5Vdc) for detection of resistive values (room/window and water temperature status) and four potential-free relay outputs and can control radiators and fan coil units.

#### Electric data

With DC power supply

- Supply voltage: 12Vdc ±25%
- Power consumption when in standby status (@
- +12Vdc): ≤ 50mA
- Maximum power consumption (@ 12Vdc): ≤ 150mA With AC power supply
- Supply voltage: 12Vac ±30%
- Allowed frequency: 50 ÷ 60Hz
- power consumption when in standby status (@
- +12Vac): ≤ 75mArms
- Maximum power consumption (@ 12Vac): ≤ 200mArms

#### Weather conditions

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

#### **Mechanical features**

- Enclosure: 3 S44 modules (67.5 w x 45 h x 55.5
- Maximum projection at modules lined level: 6.5 mm (at plate lined level).
- Protection degree: IP40
- Terminal blocks: 2 + 2 + 10 poles 12A 250V
- Programming connector: stereo female jack d = 2.5 mm
- Compatible with all System 44 elements

#### **Temperature measure**

- Measuring range: 0°C to 40°C
- Setting range: 30°C (5°C to 35°C)
- Reproducibility error: 0.2°C (max)
- Consistency: 0.3°C (max)
- Thermostat bias: 0.2°C to 2.5°C adjustable
- Expressed in °C or F

#### Compliance with the standards

- CEI EN 60730-1: automatic electric devices for domestic and similar uses (Part 1 – General rules)
- CEI EN 60730-2-9: automatic electric devices for domestic and similar uses (Part 2-9 - Special rules for temperature-sensitive control devices)

#### Relay auxiliary outputs

- . Maximum applicable load (resistive load): 2A at 250Vac (cosφ 1)
- Maximum applicable load (inductive load): 1A at 250Vac (cosφ 0.4)
- Contact (electrical) life: 50,000 operations (max load)
- Maximum (electrical) switchover frequency:
- 1,200 cycles/h
- Contact (mechanical) life: 5,000,000 operations
- · Maximum (mechanical) switchover frequency: 18.000 cvcles/h

#### **DESCRIPTION OF THE DISPLAY**



overtemperature control active

anti-freezing function active



#### **ARMBUS ADDRESS:**

used only during programming phase



WINTER:

thermostat set on summer operating mode. It flashes if the window is open

operation in spring and autumn. It flashes

thermostat set on winter operating mode. It flashes if the window is open

**INTERMEDIATE SEASON:** 

if the window is open



#### thermoregulation active (fan icon). The vertical bar indicates the fan coil unit speed.

#### **SETTING OFF:**

**FAN COIL:** 

thermoregulation is manually disa-OFF bled. Only anti-freezing and overtemperature functions are active.

#### ANTI-FREEZING:



anti-freezing function is active (valve open and fan speed 1)



°C = Celsius degrees

°F = Fahrenheit degrees

°E = out-of-range temperature

**TEMPERATURE MEASURE UNIT:** 



#### BUS:

MAX OVERTEMPERATURE:

**ANTI-FREEZING:** 

the system is connected to the bus



#### **ECONOMY CONTROL:**

time periods controlled by an external clock



#### **KEY LOCK ACTIVE**



#### **NIGHT ECONOMY:**

thermostat set on night economy.

#### **WATER TEMPERATURE:**

INT supply water temperature (if 53GA91-T probe is installed) in undefined range



Energy saving thermostat with setting function for fan-coil units or radiators for Stand Alone and Network hotel management system — Domus Touch series

Energy saving thermostat with setting function for fan-coil units or radiators for Stand Alone and Network hotel management system – Life Touch series

Energy saving thermostat with setting function for fan-coil units or radiators for Stand Alone and Network hotel management system – Allumia series

NTC probe for automatic season switchover in Stand Alone mode

Not to be used for network system

Mod.

Info





Code

441GA52-T

442GA52-T

443GA52-T

53GA91-T

Description

#### 441GA52-T

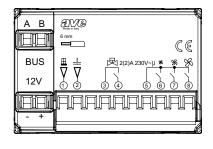
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442GA52-T



443GA52-T

#### DESCRIPTION OF TERMINALS BLOCK



Terminal	Colour	Description
А	Green	"A" RS-485
В	Green	"B" RS-485
-	Black	- Power supply (Input Common)
+	Black	+Power supply
1	Green	Window Contact Input/ Room status
2	Green	Water Probe Input
3 e 4	Green	Valve Output
5	Green	Common for terminals 6, 7 and 8
6	Green	Fan Coil Unit Speed 1 Output
7	Green	Fan Coil Unit Speed 2 Output
8	Green	Fan Coil Unit Speed 3 Output

#### **DESCRIPTION OF PUSH-BUTTON PANEL**





- enables/disables thermoregulationin the room (ON/OFF)



- decrease of temperature set-point by steps of 0.1°C



- increase of temperature set-point by steps of 0.1°C



- setting of fan coil unit speed

### Stand-Alone Hotel Management System with 125kHz technology Components for Stand-Alone system

#### TECHNICAL **FEATURES**

### Room control unit 53GA72-TM

The 53GA72-TM device is a room control unit that completes the transponder stand-alone hotel system. It can control its inputs and outputs autonomously and can also communicate with the various slave devices of the same hotel series (outdoor reader, indoor reader and room thermostat) or with a master device (monitoring PC connected on the bus by the SCR-ALB04 or SCR-ALBM1 programmer).

The room control unit is provided with four auxiliary inputs for detecting the status of potential-free contacts and four relay outputs. It is also provided with an internal clock (RTC or REAL TIME CLOCK) with lithium buffer battery that enables to manage a clock/calendary which is necessary when the card expiry or thermostat night economy function is used.

Two LEDs are present on the control unit front side: a green LED (BATT): indicates the power supply status of the device. The light is fixed to indicate that the operation is OK. The LED flashes to indicate that the battery of the RTC group has to be replaced (below the operating minimum level) or is not present.

A red LED (BUS): indicates the status of serial communication. It switches on to indicate that at least one device has been detected on the room bus (polling response).

#### **Electrical data**

With DC power supply

- Supply voltage: + 12Vdc ±25%
- Power consumption when in standby status (@ +12Vdc):  $\le 75mA$
- Maximum power consumption (@ +12Vdc):  $\leq 200mA$

With AC power supply

- Supply voltage: + 12Vac ±30%
- Allowed frequency: 50 ÷ 60Hz
- Power consumption when in standby status (@ +12Vac):  $\le 150mArms$
- Maximum electrical input (@ +12Vac): ≤ 300mArm

#### Weather conditions

- $\bullet$  Reference temperature and relative humidity: 25°C RH 65%
- Operating tempearture range: 0°C ÷ +40°C
- Maximum Relative Humidity: 90% @ + 35°C
- Max. Height: 2000 m a.s.l.

#### **Mechanical features**

- Enclosure: 4 DIN modules (69.5 I x 89.5h x 65 d) mm
- Protection degree: IP40
- Terminal blocks: 10 poles + 8 poles 12A 250V
- Programming connector: stereo female jack d=2.5mm

#### **Compliance with the standards**

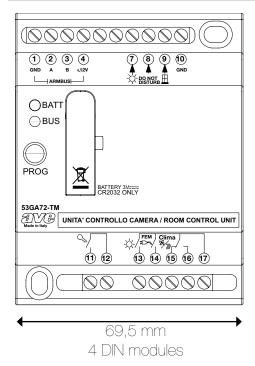
• EMC Directive 2004/108/EC

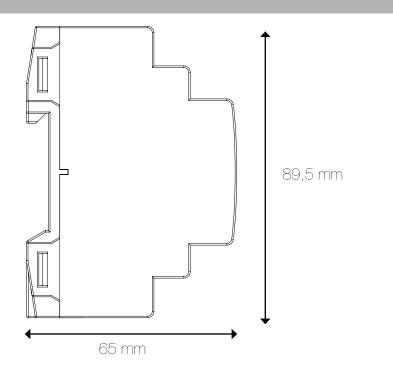
According to harmonized standards

- EN 50090-2-2:1996 + A1:2002 + A2:2007
- LV Directive 2006/95/EEC

According to harmonized standards EN 560950-1:2006

#### OVERALL DIMENSIONS











Code	Description	Mod.	Info
53GA72-TM	Room control unit for stand-alone systems 4 DIN modules		
GADS01	Silencing device for AC electrolocks		
GA-RTC	Portable device for date and time programming. Allows replacing a portable PC during update of date and time of room control unit		

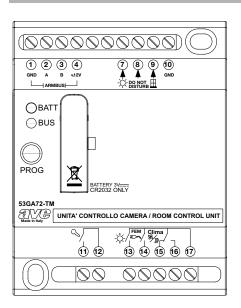
**Attention:** For installation refer to installation instructions

53GA72-TM



**GA-RTC** 

#### TERMINAL BLOCK



Terminal	Colour	Description
1	Green	- Power supply
2	Green	"A" RS-485
3	Green	"B" RS-485
4	Green	+ Power supply
7	Green	Room Light Input
8	Green	DO NOT DISTURB Input
9	Green	Thermoregulation Consent Input
10	Green	GND (Inputs reference)
11 e 12	Green	Electrolock Control Output
13	Green	Room Light Control Output
14	Green	Load control Output (EMF)
15	Green	Thermoregulation Activation Control Output - NC contact
16	Green	Thermoregulation Activation Control Output - NO contact
17	Green	Common for terminals 13, 14, 15 and 16

## Stand-Alone Hotel Management System with 125kHz technology Components for Stand-Alone system

TECHNICAL FEATURES

### Card programmer SCR-ALB04

The SCR-ALB04 device is a 125kHz transponder card programmer which 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 monitoring PC for programming the transponder cards and/or monitoring and/or programming of all the devices of the hotel management system.

The SCR-ALB04 device works if connected to a PC provided with the specially-supplied card programming software. There are two types of software: a user-friendly software for final users and a second technical software for installers and/or technical service centres.

#### **Light signals (led)**

• L1 (Red): NOT EXEC

Indicates the last command which was sent was not executed properly.

• L2 (Green): EXECUTED

Indicates the last command which was sent was executed properly.

• L3 (Yellow): WAIT

Indicates the programmer is free and can receive new commands (flashing light) or a previous command is being completed (fixed light).

• L4 (Yellow): TX

Indicates a communication is under way from SCR-ALB04 programmer to the PC by USB interface.

• L5 (Yellow) RX

Indicates a communication is under way from the PC to the SCR-ALB04 programmer by USB interface.

#### **Electric data**

- Supply voltage (DC):
- +5Vdc ±10% self-powered through USB port
- Power consumption when in standby status (@
- +5Vdc): ≤ 50mA
- Maximum power consumption (@ +5Vdc):
- $\leq 100 \text{mA}$
- Compatibility USB interface: 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
- Max. Height: 2000 m a.s.l.

#### **Mechanical features**

- Enclosure: 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)
- ARMBus interface: Stereo jack 2.5 mm
- Compatible with all components of 125kHz hotel system

#### **Operating mode**

The SCR-ALB04 transponder card reader/programmer can be used as a simple programmer for transponder cards used for 125kHz hotel management (in association with a user software) and as a programming device of all modules for hotel management in combination with an additional software (for technicians and/or installers). It allows updating the management firmware and/or changing the configuration parameters of the various devices of the hotel series.

It also allows monitoring the traffic on the room bus (Sniffer) by reporting all messages and/or commands stored on the bus.

#### Card 44339CHM-T 44339CHU-T

The 125kHz cards for hotel management have a 1 Kb rewritable memory.

#### 44339CHM-T master card

The system requires the use of a Master card for any operation of prearrangement and/ programming of cards. This Master card is provided with its own "Hotel Code" that the Master card transfers to the reader together with all other data during direct programming, and a "Room Progressive code" which is automatically incremented by the reader after the first setting.

Systems with different zones and/or sub-systems can be used provided a Master card is supplied for each combination (for ex. 3 zones and 2 sub-systems = 6 Master cards). Note: The Master card (or Master cards) identifies the system and must then be kept for later configurations.

The system code received by the Master card (together with the sub-system code and the zone code) is saved by the reader and transferred to all the cards programmed by the reader when the customer cards and/or service cards are programmed. In the case of failure or if the SCR-ALBO4 programmer is not available, all access card programming operations can be performed by means of the Master card according to the reader instructions.

#### 44339CHU-T user card

User cards are cards allowing an access or a service. They can be of different types: CUSTOMER CARDS, CHAMBERMAID CARDS, MAINTENANCE CARDS, PASSE-PARTOUT CARDS, SUPER-GUEST CARDS, SUB-MASTER CARDS, COPIES OF MASTER CARDS, ERASER CARDS.





Code Description Mod. Info

SCR-ALB04

125 KHz transponder card programmer

software SFW-ALB04 included



SCR-ALB04

#### Nota:

The SFW-ALB04 software is compatible with Windows XP operating system or later versions – architecture x86 or x64

#### SFW-ALB04 SOFTWARE

ROOM The so

#### **ROOM STATUS:**

The software by AVE for the stand alone system allows the user to know at any moment which rooms are booked and for how long. The room management system allows to have full control thus preventing unpleasant inconvieniences to customers, and also to create cards with a date of expiry.

#### USER CONTROL:

The user control function allows to have full control and create the access card to rooms so that the hotel staff can carry out its work easily. Chambermaids will enter the rooms to make up but only if the customer is not in the room. The maintenance staff will have access to all rooms except if the customer is in the room, etc.



	Cod.	Descrizione	Mod.	Info
	44339CHM-T	125kHz transponder Master card Card format: ISO7816		
<b>E</b> 44	44339CHU-T	125kHz transponder User Card Card format: ISO7816		





44339CHU-T

## Stand-Alone Hotel Management System with 125kHz technology Components for Stand-Alone system

#### TECHNICAL **FEATURES**

### Room outdoor reader 44..GA01-T

Outdoor readers allow to control the access to the rooms and other service rooms of the hotel by means of transponder cards. They can control their own inputs and outputs autonomously and do not need other devices of the same hotel series to operate.

The devices can be set for access to 4 different types of rooms:

- ROOMS: access is authorized to all enabled customer cards and service cards in certain conditions (for example, the chambermais card works only if the room is empty).
- SERVICE ROOMS: access is authorized to the staff hotel cards but not the customers' cards.
- COMMON AREAS: access is authorized to all service cards of the staff and authorized customers.
- DEDUCTIBLE CREDIT ACCESS: access is authorized to the enabled cards of the staff. Customer cards are autohorized if they have sufficient credit which corresponds to a certain number of accesses. At every access to the room, the device updates the card by reducing the credit.

#### Electric data

With DC supply voltage

- Supply voltage: +12Vdc ±25%
- Power consumption when in standby status (@+12Vdc):  $\le 80mA$
- Maximum power consumption (@+12Vdc):  $\leq 150$ mA

With AC power supply

- Supply voltage: +12Vac ±30%
- Allowed frequency: 50 ÷ 60Hz
- Power consumption when in standby status (@+12Vac): ≤ 200mArms
- Maximum power consumption (@+12Vac):
- ≤ 250mArms

#### **Mechanical features**

- Enclosure: 3 S44 modules (67.5 w x 45 h x 55.5 d) mm
- Maximum projection at modules lined level: 9 mm (at plate lined level).
- Lighting of active zone: by high efficiency and ultra-low consumption blue LED
- Protection degree: IP40
- Terminal blocks: 2 + 2 + 10 poles 12A 250V
- Programming connector: stereo female jack d = 2.5 mm
- Blue LED light for identification in the dark

#### **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
- Max. Height: 2000 m a.s.l.

#### Transponder technology

- Support: ISO7816 (credit card format)
- Transponder: RFID 125kHz Opt64

#### Compliance with the standards

- R&TTE Directive 1999/5/EC Product Class 1. According to harmonized standards ETSI EN 300330-2 Ver. 1.3.1 (2006-4)
- EMC Directive 2004/108/EC

According to harmonized standards:

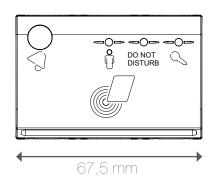
- ETSI EN 301 489-1 Ver. 1.6.1 (2005-09)
- ETSI EN 301 489-3 Ver. 1.4.1 (2002-08)
- EN 50090-2-2:1996 + A1:2002 + A2:2007
- LV Directive 2006/95/EEC

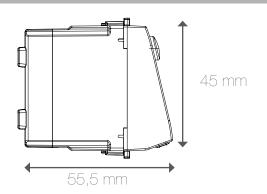
According to harmonized standards EN 60950-1:2006

#### **Relay auxiliary outputs**

- Maximum applicable load (AC resistive load): 5A at 250Vac (cosφ 1)
- Maximum applicable load (DC): 5A at 30Vdc
- Maximum applicable load (AC inductive load): 3A at 250Vac (cosφ 0.4)
- Contact (electrical) life: 50,000 operations (max load)
- Maximum (electrical) switchover frequency: 1,200 cycles/h
- Contact (mechanical) life: 5,000,000 operations
- Maximum (mechanical) switchover frequency: 18.000 cycles/h

#### OVERALL DIMENSIONS









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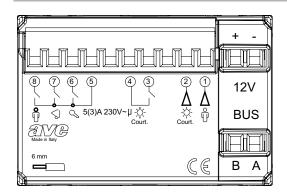
Code	Description	Mod.	Info
441GA01-T	Outdoor transponder reader - 125kHz Domus Touch Series		
442GA01-T	Outdoor transponder reader - 125kHz Life Touch Series		
GADS01	Silencing device for AC electrolocks		



442GA01-T



#### DESCRIPTION OF TERMINALS BLOCK



Terminal	Colour	Description
А	Green	"A" RS-485
В	Green	"B" RS-485
-	Black	- Power supply (Inlet common)
+	Black	+Power supply
1	Green	Room Status Input
2	Green	Courtesy Light Input
3 e 4	Green	Courtesy Light Output
5	Green	Common for terminals 6, 7 and 8
6	Green	Electrolock Output
7	Green	Bell Output
8	Green	Guest Presence Output

### Stand-Alone Hotel Management System with 125kHz technology Components for Stand-Alone system

#### TECHNICAL **FEATURES**

### Indoor card readers 44..GA30-T

Indoor card readers must be placed inside the room to allow the activation of room loads and services only when an enabled card is used. They can control their own inputs and outputs autonomously and do not need other devices of the same hotel series to work.

They can communicate with other devices, such as room control unit, outdoor reader (for access to the room) of transponder cards, room thermostat and transponder card programmer.

The readers are equipped with two auxiliary inputs for detecting the status of potential-free contacts, and four relay outputs (always potential-free).

#### Electric data

With DC power supply

- Supply voltage: 12Vdc ±25%
- Power consumption when in standby status (@+12Vdc): ≤ 80mA
- Maximum power consumption (@+12Vdc):  $\leq$  150mA

With AC power supply

- Supply voltage: 12Vac ±30%
- Allowed frequency: 50 ÷ 60Hz
- Power consumption when in standby status (@ 12Vac):  $\leq 200mArms$
- Maximum power consumption (@12Vac):  $\leq$  250mArms

#### **Mechanical features**

- Enclosure: 3 S44 modules (67.5 w x 45 h x 55.5 d) mm
- Maximum projection at module lined level: 9 mm (at plate lined level).
- Lighting of active zone: by high efficiency, ultra low consumption blue LED
- Protection degree: IP40
- Terminal blocks: 2 + 2 + 10 poles 12A 250V
- Programming connector: stereo female jack
   d = 2.5 mm
- Blue LED light for identification in the dark

#### **Weather conditions**

- $\bullet$  Reference temperature and relative humidity:  $25^{\circ}\text{C}$  RH 65%
- Operating temperature range: 0°C ÷ +40°C
- Maximum Relative Humidity: 90% at + 35°C
- Max. Height: 2000 m a.s.l.

#### Transponder technology

- Support: ISO7816 (credit card format)
- Transponder: RFID 125kHz Opt64

#### **Compliance with the standards**

- R&TTE Directive 1999/5/EC Product Class 1. According to harmonized standards ETSI EN 300330-2 Ver. 1.3.1 (2006-4)
- EMC Directive 2004/108/EC

According to harmonized standards:

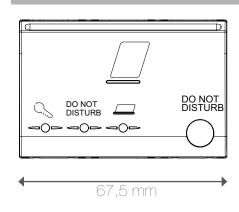
- ETSI EN 301 489-1 Ver. 1.6.1 (2005-09)
- ETSI EN 301 489-3 Ver. 1.4.1 (2002-08)
- EN 50090-2-2:1996 + A1:2002 + A2:2007
- LV Directive 2006/95/EEC

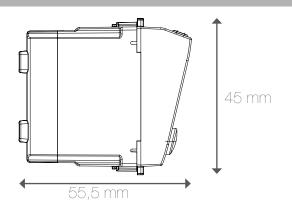
According to harmonized standards EN 60950-1:2006

#### **Relay auxiliary outputs**

- Maximum applicable load (DC): 5A at 30Vdc
- Maximum applicable load (AC inductive load): 3A at 250Vac ( $\cos \varphi$  0.4)
- Contact (electrical) life: 50,000 operations (max load)
- Maximum (electrical) switchover frequency: 1,200 cycles/h
- Contact (mechanical) life: 5,000,000 operations
- Maximum (mechanical) switchover frequency: 18,000 cycles/h

#### **OVERALL DIMENSIONS**









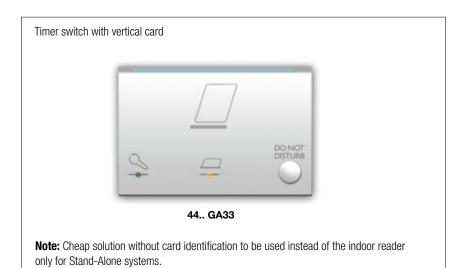


441GA30-T

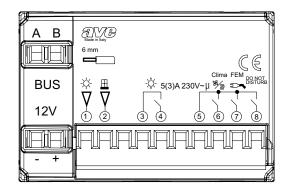
Description	Mod.	Info
Indoor transponder card reader with pocket – 125kHz Domus Touch Series		
Indoor transponder card reader with pocket – 125kHz Life Touch Series		
Timer switch with vertical card Domus Touch Series		
Timer switch with vertical card Life Touch Series		
	Indoor transponder card reader with pocket – 125kHz Domus Touch Series  Indoor transponder card reader with pocket – 125kHz Life Touch Series  Timer switch with vertical card Domus Touch Series  Timer switch with vertical card	Indoor transponder card reader with pocket – 125kHz Domus Touch Series  Indoor transponder card reader with pocket – 125kHz Life Touch Series  Timer switch with vertical card Domus Touch Series  Timer switch with vertical card



442GA30-T



#### DESCRIPTION OF TERMINALS BLOCK



Terminal	Colour	Description
А	Green	"A" RS-485
В	Green	"B" RS-485
-	Black	- Power supply (Inlet common)
+	Black	+Power supply
1	Green	Room Light Input
2	Green	Window Contact Input
3 e 4	Green	Room Light Output
5	Green	Common for terminals 6, 7 and 8
6	Green	Temperature Control Consent Output
7	Green	Load Command Output (EMF)
8	Green	DO NOT DISTURB Output

#### Stand-Alone Hotel Management System with 125kHz technology **Components for Stand-Alone system**

TECHNICAL **FEATURES** 

#### **Thermostat** 44..GA52-T

Thermostats are used to detect room temperature and for thermoregulation in a hotel room or in any other room. The thermostat can communicate with a room control unit which controls it vas well as with the external and internal card reader to check the room status.

The device is provided with two auxiliary analogue inputs powered for detection of resistive values (room/window and water temperature status) and four potential-free output relays and can control radiators and fan-coil units.

#### **Electric data**

With DC power supply

- Supply voltage: 12Vdc ±25%
- · Power consumption when in standby status  $(@+12Vdc): \le 50mA$
- Maximum power consumption (@12Vdc): ≤ 150mA

With AC power supply

- Supply voltage: 12Vac ±30%
- Allowed frequency: 50 ÷ 60Hz
- · Power consumption when in standby status (@+12Vac): ≤ 75mArms
- Maximum power consumption (@12Vac):
- ≤ 200mArms

#### **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
- Max. Height: 2000 m a.s.l.

#### **Mechanical features**

- Enclosure: 3 S44 modules (67.5 w x 45 h x 55.5 d) mm
- Maximum projection at modules lines level: 6.5 mm (at plate lined level).
- Protection degree: IP40
- Terminal blocks: 2 + 2 + 10 poles 12A -
- · Programming connector: stereo female jack d = 2.5 mm
- · Compatible with all System 44 elements

#### **Temperature measure**

- Measuring range: 0°C to 40°C
- Setting range: 30°C (5°C to 35°C)
- Reproducibility error: 0.2°C (max)
- Consistency: 0.3°C (max)
- Thermostat bias: 0.2°C to 2.5°C adjustable
- Expressed in °C or F

#### **Compliance with the standards**

- CEI EN 60730-1: automatic electric devices for domestic and similar uses (Part 1 - General
- CEI EN 60730-2-9: automatic electric devices for domestic and similar uses (Part 2-9 - Special rules for temperature-sensitive control devices)

#### **Relay auxiliary outputs**

- Maximum applicable load (resistive load): 1A at 250Vac (cosφ 1)
- · Maximum applicable load (inductive load): 2A at 250Vac (cosφ 0.4)
- Contact (electrical) life: 50,000 operations (max load)
- Maximum (electrical) switchover frequency: 1,200 cycles/h
- Contact (mechanical) life: 5,000,000 opera-
- Maximum (mechanical) switchover frequency: 18,000 cycles/h

#### **DESCRIPTION OF THE DISPLA**



overtemperature control active

anti-freezing function active



#### **ARMBUS ADDRESS:**

used only during programming phase



#### SUMMER:

thermostat set on summer operating mode. It flashes if the window is open



**INTERMEDIATE SEASON:** 



#### **SETTING OFF:**

ANTI-FREEZING:

**FAN COIL:** 

unit speed.

thermoregulation is manually disa-OFF bled. Only anti-freezing and overtemperature functions are active.

thermoregulation active (fan icon). The vertical bar indicates the fan coil



operation in spring and autumn. It flashes if the window is open



thermostat set on winter operating mode. It flashes if the window is open



#### anti-freezing function is active (valve open and fan speed 1)

**TEMPERATURE MEASURE UNIT:** 



°C = Celsius degrees

°F = Fahrenheit degrees

°E = out-of-range temperature



#### BUS:

MAX overtex

**ANTI-FREEZING:** 

the system is connected to the bus



#### **ECONOMY CONTROL:**

time periods controlled by an external clock



#### **KEY LOCK ACTIVE**



#### **NIGHT ECONOMY:**

thermostat set on night economy.





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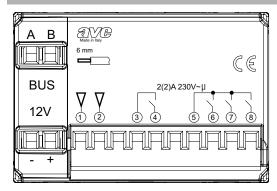
441GA52-
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Code	Description	Mod.	Info
441GA52-T	Energy saving thermostat with setting function for fan coil radiators for Network hotel management system Domus Touch series	units or	
442GA52-T	Energy saving thermostat with setting function for fan coil radiators for Network hotel management system Life Touch series	l units or	
53GA91-T	NTC probe for automatic season switchover		



442GA52-T

#### DESCRIPTION OF TERMINALS BLOCK



Terminal	Colour	Description	
А	Green	Pole "A" RS-485	
В	Green	Pole "B" RS-485	
-	Black	Power supply negative (input common)	
+	Black	Power supply positive	
1	Green	Input (for ex. Window/Room status)	
2	Green	Input (Water Probe)	
3 e 4	Green	Output 1 (for ex. Valve)	
5	Green	Common for terminals 6, 7 and 8	
6	Green	Output (for ex. Fan Coil Unit Speed 1)	
7	Green	Output (Fan Coil Unit Speed 2)	
8	Green	Output (Fan Coil Unit Speed 3)	

#### DESCRIPTION OF PUSH-BUTTON PANEL





- enables/disables thermoregulation in the room (ON/OFF)



- decrease of temperature set-point by steps of 0.1°C



- increase of temperature set-point by steps of 0.1°C



- setting of fan coil unit speed

### **Complementary components**

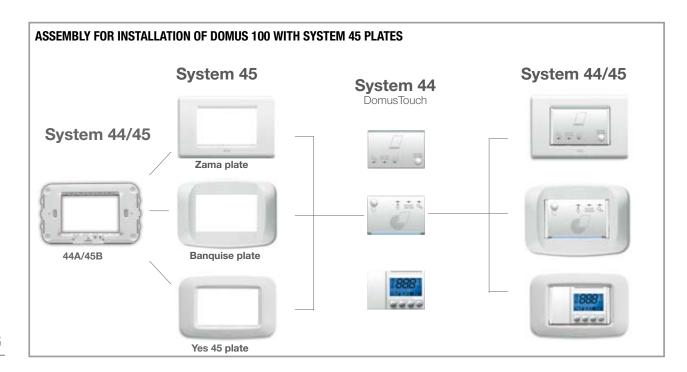
	Code	Description	Mod.	Info
Accessories	5347	230/12-24Vac 30VA transformer – 2 DIN modules		
	5349	230/12-24Vac 40VA transformer – 4 DIN modules		
•••••	53ABAUX12V	230/12Vdc 2A power supply unit – 2 DIN modules		
	AF53899	230/12Vdc 2.2A power supply unit – 6 DIN modules		
	532RP-230	Step-by-step relay with 230Vac coil In 16A power circu	iit 250Vac 2	NO – 1
3. 4 200 34 4		To use in the network system as a step-by-step relay for	or EMF activ	ation.
5349	44A/45B	Hybrid frame that allows to use System 44 devices with System 45 plates.	1	
	44SP43B	3 IP55 module plate with membrane complete with clip System 44 modules.	ping system	ı for
		To use to position card readers externally.		

#### INSTALLATION EXAMPLE

Installation of IP55 By item 44SP43B



44SP43B







7	310	77		т	

442076



441070/1



442070B/2 442070W/2



442086





442017



442083

Code	Description Mod. Info
442076	Protruding signalling lamp (out-of-door) with red diffuser for lamps with E10 connection 10x28 mm 230V~ 3W max
441070/1	Stair riser light - 12-24 Vdc/ac or 230Vac power supply High efficiency white led Domus Touch series
442070B/2	Step marker light - 12-24 Vdc/ac or 230Vac power supply High efficiency blue led Life Touch series
442070W/2	Step marker light - 12-24 Vdc/ac or 230Vac power supply High efficiency white led Life Touch series
441017	1P NO+NC 10A pull cord push-button cord made of insulating material 1.5 m - Domus Touch series - 1 module
441083	Three-tone electronic bell - 12Vdc/ac power supply with possibility to choose amon 6 different tones; setting of sound intensity on front side – front signalling led for acoustic pressure 71÷76 dB at 1 m according to the activated sound – 2 modules
442086	Removable anti-blackout light with base for recharge – with rechargeable and replaceable batteries – lamp: high efficiency white led – front switch for power off in case of power failure – recharge time 12 hours – operating life operating time in battery mode 2 hours – 230 Vac power supply – Life Touch series
442017	1P NO+NC 10A pull cord push-button cord made of insulating material 1.5 m - Life Touch series - 1 module
442083	Three-tone electronic bell — 12 Vdc/ac power supply with possibility to choose among 6 different tones; setting of sound intensity on front side—front signalling led - acoustic pressure 71÷76 dB at 1 m according to the activated sound - Life Touch series - 2 modules

**Note:** For Life44, Allumia and Domus100 series (in their catalogues) more than 200 functions and different socket-outlets are available which can be technically and aesthetically matched with the products shown in this catalogue.





### **Code summary**

	Code	Description	Mod.	Info
Stand-Alone system with 125kHz technology	441GA01-T	Outdoor transponder reader – 125kHz Domus Touch series		
	442GA01-T	Outdoor transponder reader – 125kHz Life Touch series		
	443GA01-T	Outdoor transponder reader – 125kHz Allumia series		
	441GA30-T	Indoor transponder reader with pocket – 125kHz Domus Touch series		
	442GA30-T	Indoor transponder reader with pocket – 125kHz Life Touch series		
	441GA33	Timer switch with vertical card Domus Touch series		
	442GA33	Timer switch with vertical card Life Touch series		
	SCR-ALB04	Transponder card programmer 125kHz		
	44339CHM-T	Transponder card 125kHz Master type Card format: ISO7816		
	44339CHU-T	Transponder card 125kHz User type Card format: ISO7816		

	Code	Description	Mod.	Info
Stand-Alone system with MIFARE technology	441GA01-M	Outdoor reader – MIFARE Domus Touch series		
	442GA01-M	Outdoor reader – MIFARE Life Touch series		
	443GA01-M	Outdoor reader – 125kHz Allumia series		
	442GA02-M	Ave Touch outdoor reader - MIFARE Ave Touch series		
	441GA30-M	Indoor reader with pocket – MIFARE Domus Touch series		
	442GA30-M	Indoor reader with pocket – MIFARE Life Touch series		
	443GA30-M	Indoor reader with pocket – MIFARE Allumia series		
	SCR-ALBM1	MIFARE card programmer		
	44339CHM-M	MIFARE card Master type Card format: ISO7816		
	44339CHU-M	MIFARE card User type Card format: ISO7816		





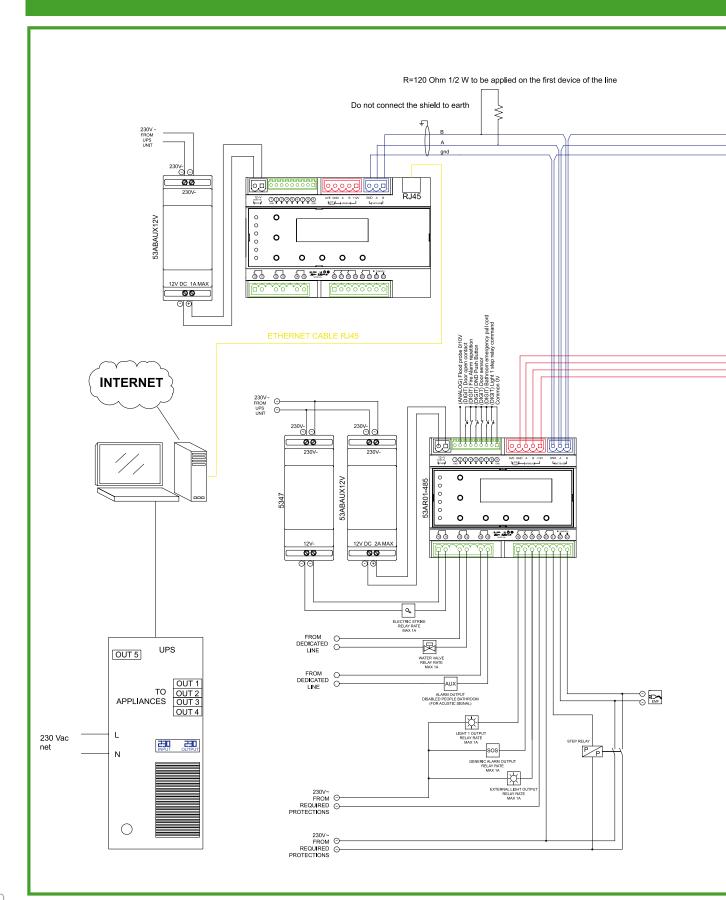
#### Common items for Stand-Alone system with 125kHz and MIFARE technology

Code	Description Mod. Info
441GA52-T	Energy saving thermostat with fan coil unit or radiator control for Stand- Alone hotel management system Domus Touch series
442GA52-T	Energy saving thermostat with fan coil unit or radiator control for Stand- Alone hotel management system Life Touch series
443GA52-T	Energy saving thermostat with fan coil unit or radiator control for Stand- Alone hotel management system Allumia series
53GA72-TM	Room control unit for Stand-Alone systems
GA-RTC	Portable device for time and date programming

# Network system with MIFARE technology

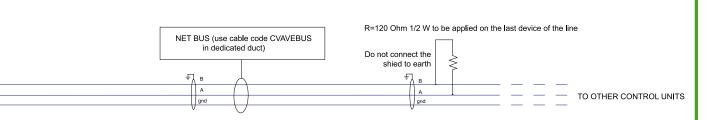
Code	Description Mod. Info					
441GA01-M	Network MIFARE outdoor reader Domus Touch series					
442GA01-M	Network MIFARE outdoor reader Life Touch series					
443GA01-M	Network MIFARE outdoor reader Allumia series					
442GA02-M	Network MIFARE outdoor reader Ave Touch series					
441GA30-M	Network MIFARE indoor reader Domus Touch series					
442GA30-M	Network MIFARE indoor reader Life Touch series					
443GA30-M	Network MIFARE indoor reader Allumia series					
441GA52-T	Energy saving thermostat with fan coil unit or radiator control for Network hotel management system Domus Touch series					
442GA52-T	Energy saving thermostat with fan coil unit or radiator control for Network hotel management system Life Touch series					
443GA52-T	Energy saving thermostat with fan coil unit or radiator control for Network hotel management system Allumia series					
53AR01-485	Hotel control unit for network system version for DIN - room management					
53AR02-485	Hotel control unit for network system version for DIN - common areas					
AR-NET01	Ethernet interface for network system - 9 DIN modules					
SFW-ALB05/06/0	7 Software for hotel management					
44339CHM-M	MIFARE card Master type Card format: ISO7816					
44339CHU-M	MIFARE card User type Card format: ISO7816					

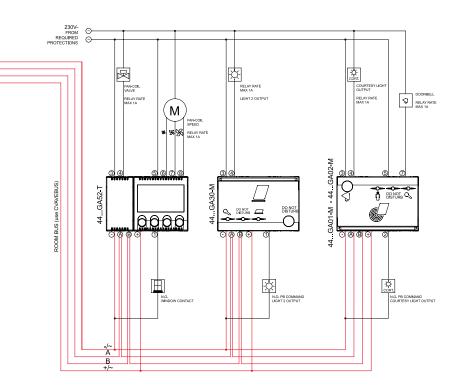
# Network system with MIFARE technology Standard room





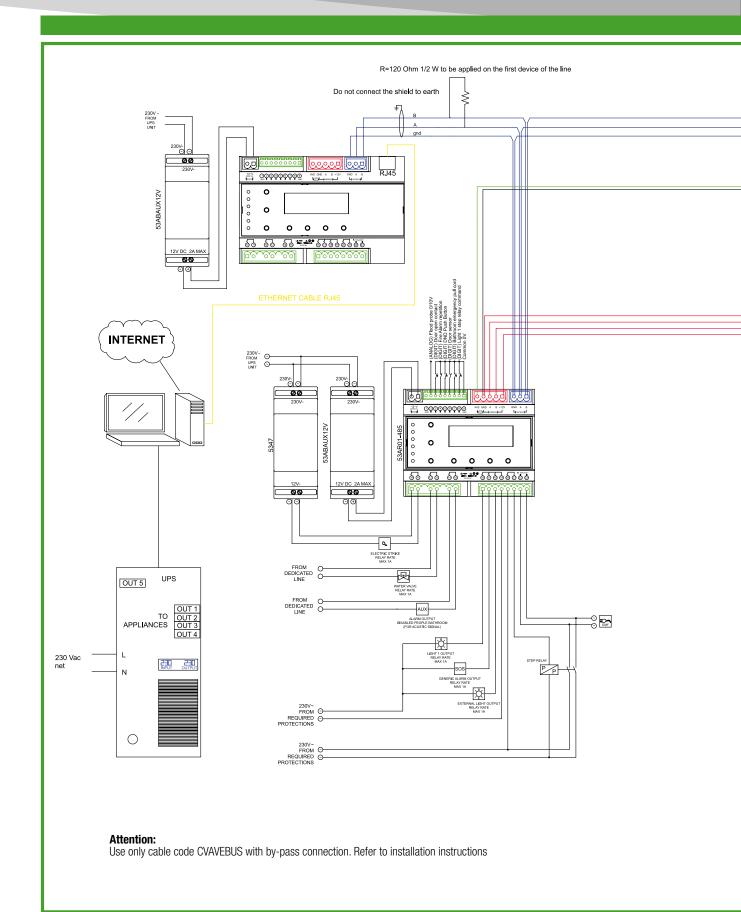






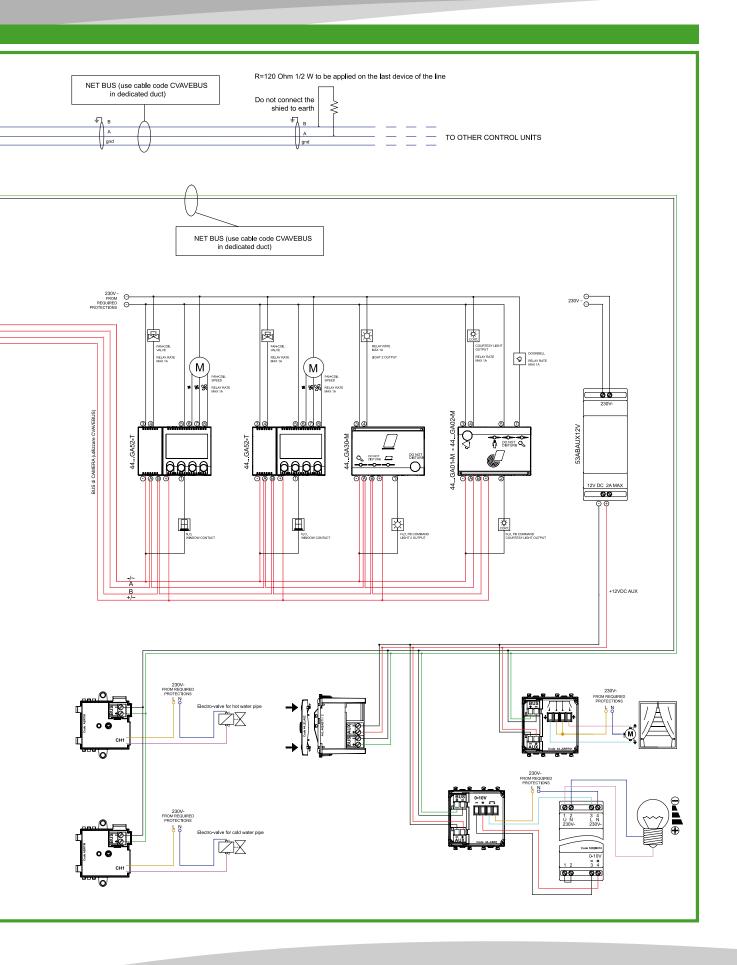
**Attention:** Use only cable code CVAVEBUS with by-pass connection. Refer to installation instructions

# Network system with MIFARE technology Suite room

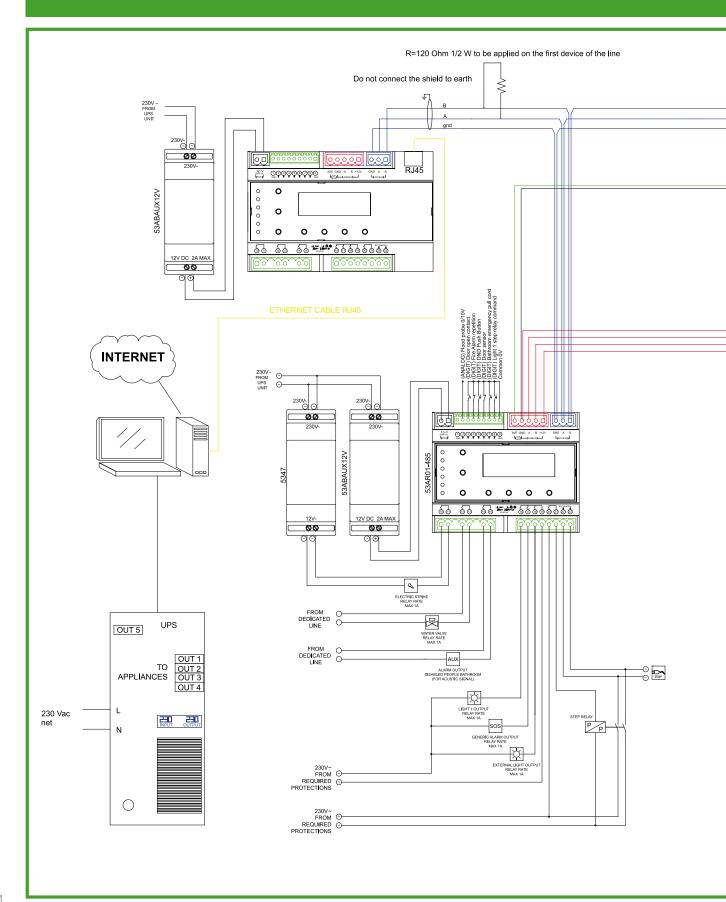






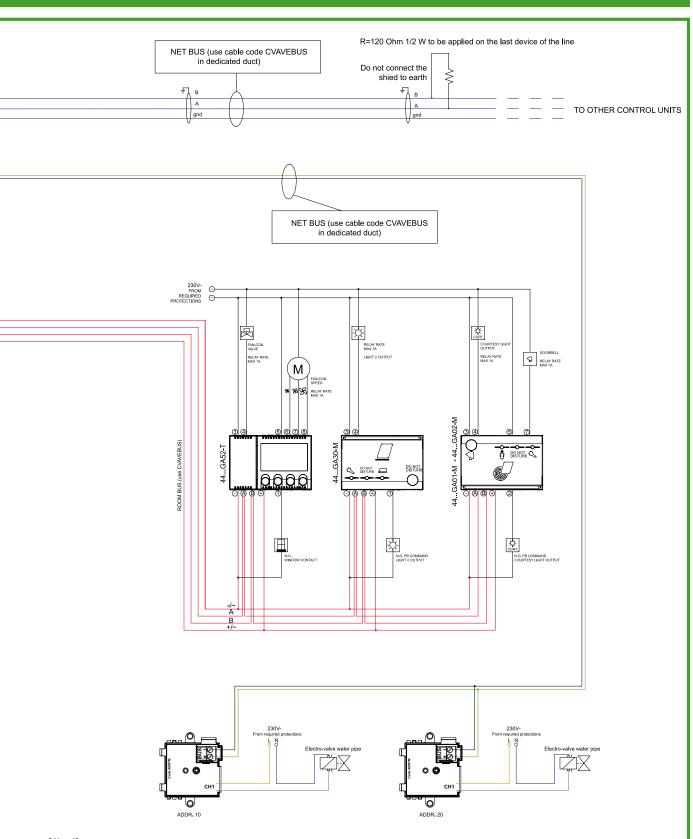


# Network system with MIFARE technology 4-pipe temperature control





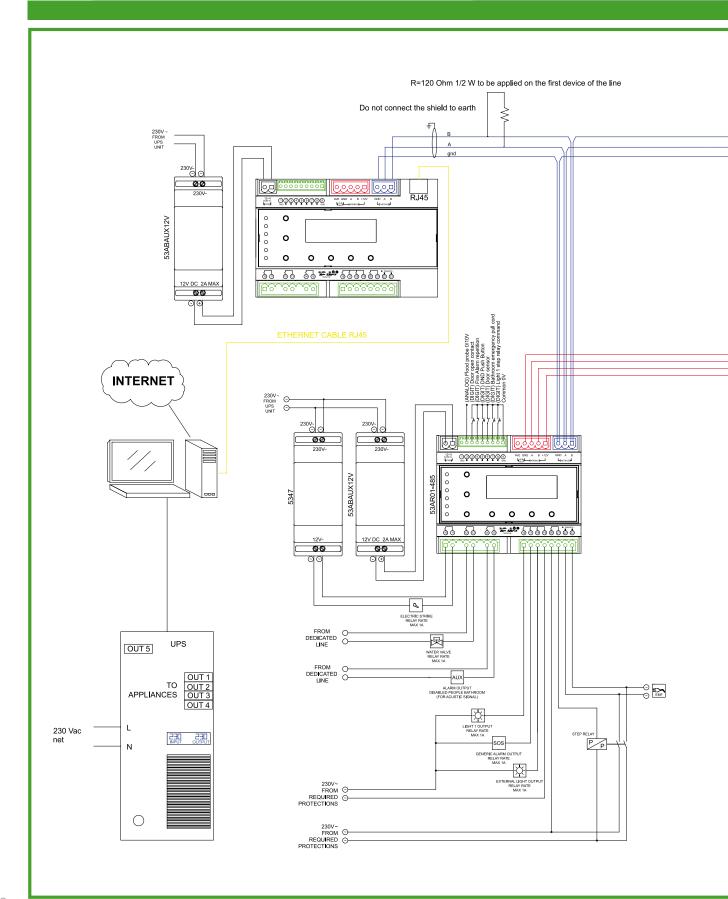




#### Attention:

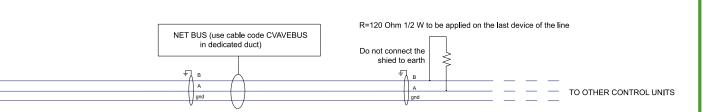
Use only cable code CVAVEBUS with by-pass connection. Refer to installation instructions

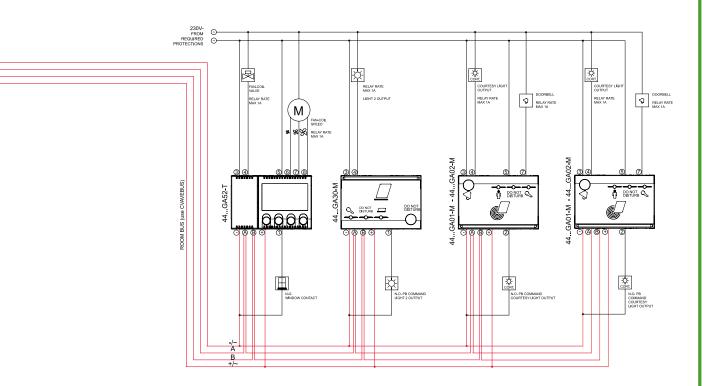
#### Network system with MIFARE technology Motel room





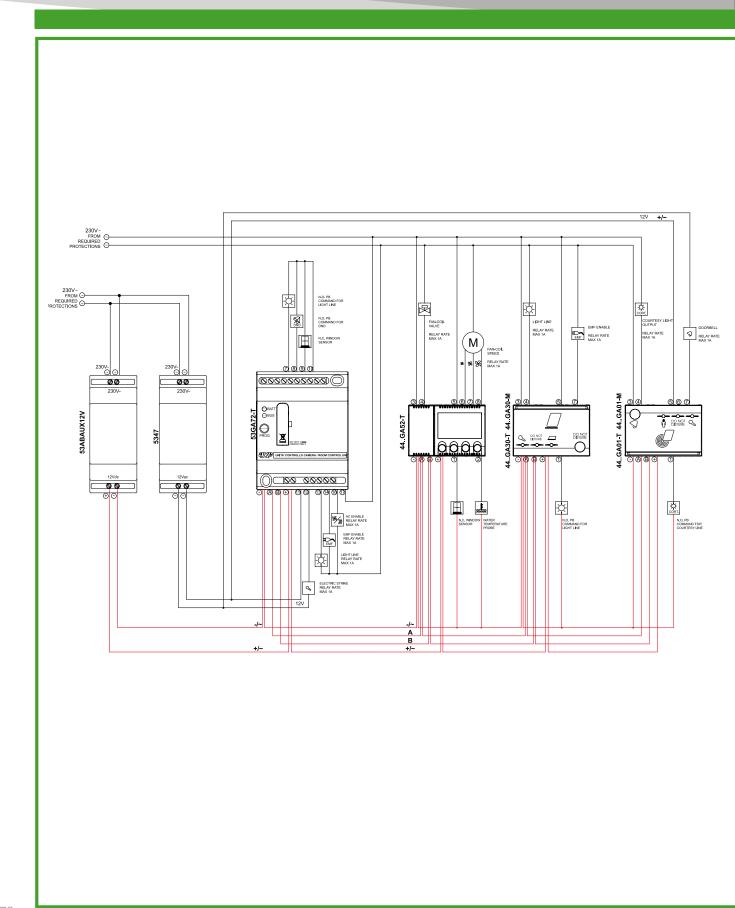






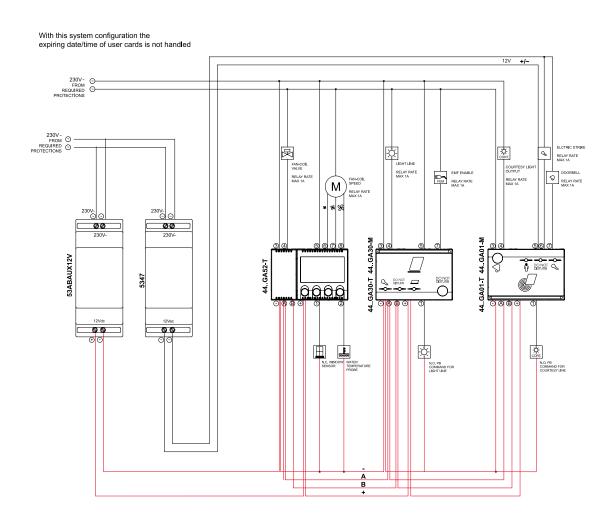
**Attention:** Use only cable code CVAVEBUS with by-pass connection. Refer to installation instructions

# Stand-Alone system with MIFARE or 125kHZ technology









**Attention:** Use only cable code CVAVEBUS with by-pass connection. Refer to installation instructions

# Ave Touch, the continuing revolution Today also advanced home automation



# Domina Hotel, a complete solution for hotel automation



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- Ave spa is not responsible for any damage to things and persons resulting from the incorrect installation of the devices by unauthorized personnel
- Ave spa is not responsible for any damage to things and persons resulting from the failure of the instructions manual, by the incorrect use, by the tampering of any single part of the device and using spare, not original parts
- Read the instructions carefully before installing the device, follow the instructions and keep them in a safe place

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