

Connected wiring accessories series with WiFi mesh



AVE PATENT N° 257 EU MODEL

DESIGN:
L. MERLETTI

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

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







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Connected Wiring Accessories series with WiFi mesh

SYSTEM ARCHITECTURE

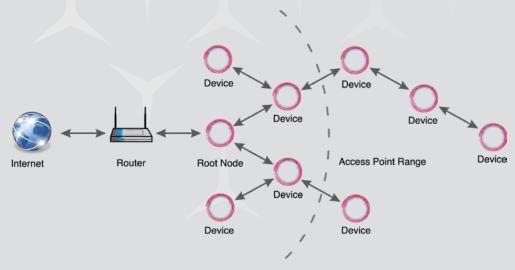
Architecture

Ave's new connected solution: A network of devices with new generation Wi-Fi Mesh technology that guarantees reliability and safety. The installation is optimized: the devices communicate directly with each other as each device can be the gateway to the system. Configuration is simplified: the application guides the user step by step. Control is immediate: thanks to the wi-fi direct mode, it is possible to activate the system even without a router and Internet connection.

General characteristics of a Wi-Fi mesh system

The devices of a DOMINA Smart IoT connected system allow you to add home automation functions to a traditional system through a Wi-Fi channel in mesh mode, without the need for wiring a bus and without the need to install home automation supervisors.

The term mesh means a different use of the Wi-Fi channel than the traditional one for two main reasons:



- the devices can propagate the signal among themselves even arriving very far from the Wi-Fi router. While in traditional Wi-Fi networks the Wi-Fi router is a star center that must be reachable by all connected devices, in the case of Mesh Wi-Fi networks the signal is instead propagated by the devices that act as a "repeater" of the signal itself. In this way, greater distances than the range of the central router can be reached.
- an addressing system between the nodes based on MAC address and not on TCP / IP is used. Each device in the mesh network communicates with the other devices directly through an addressing based on MAC address and not using IP addressing.

There is a node (and only one) within the network that is chosen to manage both TCP / IP and MESH communication based on MAC address: this node is called Root Node (RN) and is the node that acts as a "bridge "To the home router where the classic Wi-Fi client devices (PC and smartphone) are present.

In the AVE DOMINA Smart IoT system the main feature is that of not having to have a dedicated gateway for the connection between the TCP / IP network and the mesh network. Each device can in fact be configured as a Root Node. Being connected to the TCP / IP Wi-Fi network, the Root Node is able, through the home router, to connect to the Internet and allow remote control of the system.

If you do not have a home router, you can use one of the network devices as an Access Point (AP) to access the system's functions; in this case the Access Point device creates a "bridge" with the Root Node (and this mesh to the nodes) through a TCP / IP connection, but is unable to connect to the Internet (cloud) or to a home automation supervisor (AVEbus wired devices).



Specific features of the AVE IoT Wi-Fi mesh system

- The maximum number of IoT devices in a plant is 50.
- The root node is chosen by the installer from among the devices that make up the system and is always fixed.
- In an already configured system, only one device can be added at a time.
- During the configuration phase, the MESH_ID parameter is set automatically. The MESH_ID parameter is therefore not editable by the installer.
- The devices are characterized by having an AVEbus address and an AVEBus UID. The AVEbus addresses and UIDs of the devices within a system are unique (devices with the same AVEbus address are not allowed).
- The mesh system can be configured to be combined with an existing Wi-Fi router (system with router) or by using a device as Access Point of the system itself (system without router).
- In the case of configuration with a home router, it is possible to connect the root node device to the AVECloud service to be able to control the devices remotely via APP or via voice command (with Google Home and Amazon Alexa).

The AveCloud application

The AveCloud application allows you to configure the system in an easy and intuitive way. The wizard guides the user step by step through the operations. The first action to be carried out is therefore to download the Ave Cloud application. The application is free and available: for Android devices on the Google Play Store and for iOS devices on the App Store. Once downloaded, you can easily add a new Wireless IOT system.

Meaning of the front LEDs

Before deepening the programming steps, it is useful to summarize briefly below the meaning of the front single-color LEDs and pressing the PRG button according to the various situations in which the device may be configured:

- fast flashing LED: the device is in the factory parameter reset conditions and is not associated with any system; by holding down the PRG button for 2 seconds, with subsequent release, you pass to the next state.
- slow flashing LED (1 flash per second): the device is looking for WiFi networks with AVE_IoT SSID that may already be present. If another network is found, the device remains in this state waiting for the AVE_IoT SSID to become free; if instead the SSID is free, it goes to the next state;
- 1 pulse flashing led: the device is in Access Point mode and is generating a WiFi network with SSID AVE_IoT and password aveiot58.
- 2-pulse flashing LED: the device is in root node mode, connected to another device in Access Point mode. To enter this mode, it is necessary to start from the reset conditions to the factory parameters and keep the PRG button pressed for 8 seconds, with subsequent release;
- 3-pulse flashing LED: the device is a node in network configuration mode that has connected to a root node (also in configuration mode).

The PRG button

During the configuration phase, the wizard will ask you to press the front button on the device in this way it will be possible to configure first the access-point and then the root node of the system. The function of the PRG button (programming function) is present on each device. In particular:

- IoT light switch body Press the front button used to control the load;
- IoT shutter switch body Simultaneous pressing of the two front buttons;
- Step-by-step relay and IoT controlled socket Press the front button integrated in the luminous gem;
- IoT loads control Press the front button "PRG";
- IoT multitouch devices Press the button located on the side of the device;

The reset procedure is performed by pressing the PRG button for 15 seconds if the device has been powered for less than 60 minutes.



Connected Wiring Accessories series with WiFi mesh

SYSTEM ARCHITECTURE

WIFI mesh Advanced Smart Technology

For grid creation among devices. The Wi-Fi Mesh system are highly beneficial because you can always extend the grid range. The term "mesh" defines the way the connection is made. The devices build a dynamic "mesh" based on the quality of the signal they receive and monitor. This allows a continuous evolution of the system that guarantees maximum performance of the entire grid.

What also distinguishes Mesh Wi-fi from other solutions is that there is no deterioration in the quality of the connection. Mesh-based systems are slowly replacing other solutions because they are based on a high-quality and highly secure connection.

IEEE 802.11 standard Wi Fi.

It allows dual management in both Wi-Fi® DIRECT mode and Home Router mode.

<u>Wi-Fi® DIRECT mode</u>. A device of your choice within the system is identified as a Wi-Fi® Access-Point. By independently generating the Wi-Fi® grid, it enables local dialogue with the AVE Cloud application.



DOMESTIC ROUTER mode. A device of your choice in the system is identified as the Root-Node. Connecting to the Wi-Fi® grid (generated by the home router) allows supervision, both local and remote, via the AVE Cloud application and popular cloud-connected Voice Assistants







Every IoT device is smart and can be the potential gateway to the system. In the example below, the two way switch has been configured as a Root-Node, given the technology present on the device it, therefore, also fulfils the function of a system gateway. A single device, therefore, provides both standard Wi-Fi and Wi-Fi mesh communication.



Correct device positioning

During configuration, you are asked to enable the Wi-Fi® ACCESS-POINT mode in a wireless device of your choice. This allows the AVE Cloud application to connect to the system. If there are other DOMINA smart wireless IoT devices present, it is essential that the device in this mode is not the one closest to the DOMESTIC ROUTER. The closest device must instead be the one that will be configured as ROOT-NODE. The system allows the creation of systems consisting of up to 50 WIFI mesh devices. For correct communication and distribution of the mesh network, it is advisable not to place the devices only on the perimeter of the house. It is always important to think of a homogeneous distribution inside the building.





TECHNICAL CATALOGUE

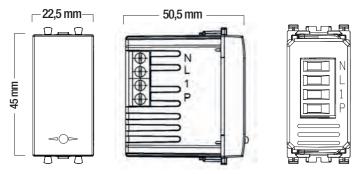
Connected Wiring Accessories series with WiFi mesh

44..074-W - IoT LIGHT OR SOCKETS RELAY - 1MOD. S.44



The 44..074-W relay is a 2.4GHz wireless electronic control device with a 16A 230Vac 50Hz relay output, loT technology on standard Wi-Fi® to create loT and IEEE 802.11 domina smart mesh network systems. It is powered by 230 Vac and includes a front panel which matches the AVE S.44 - 1-module home series.

The electronic relay from the DOMINA smart wireless IoT range allows you to control an electrical device connected to it, both locally and remotely. Local control can be managed both via the front button built into the LED and via a wired control (by connecting an external button to the dedicated terminal). Remote control can be managed via a wireless connection using the AVE Cloud app and the DOMINA smart IoT AVEbus home automation system including supervisor.



The device does not require a communication gateway and can, therefore, be managed in two ways:

- Wi-Fi® DIRECT mode. A device of your choice within the system is identified as a Wi-Fi® Access-Point. By independently generating the Wi-Fi® grid, it enables local dialogue with the AVE Cloud application;
- DOMESTIC ROUTER mode. A device of your choice in the system is identified as the Root-Node. Connecting to the Wi-Fi® grid (generated by the home router) allows supervision, both local and remote, via the AVE Cloud application and popular cloud-connected Voice Assistants.

The device has a relay output that can be set as: on-off outlet, timed outlet, step relay, staircase light. The front indicator light, in addition to signalling the status, also acts as a button for controlling (short press) and recalling any combined scene (press and hold). The timing, load shedding threshold and tolerance time parameters can also be set. In the event of a power grid outage, the load status will be the one saved immediately before the cut-off when power is restored.

IMPORTANT: the electronic relay must be powered with the same Line (L) and Neutral (N) that powers the load (see diagram). The minimum load detected must be greater than or equal to 12W. If an inductive load is connected, we recommend installing an RC filter (snubber) to be connected near the load.

Technical features
Compatible with all System44 items, installation into boxes with Ø59mm

 Dimension 	1mod.S44 (22,5 x 45 x 50,5) mm
 Protection degree: 	IP20. If installed in dedicated boxes: IP40
Weight:	38g
Frontal blue LED is visible	for an optical signalization with adjustable intensity:
 ON continuous when 	relay is closed (load enabled)
	sconnected (load disabled)
	plinking or pulsing (fading effect) to indicates the device's functioning mode
 Integrated push butto 	on with frontal led
4 terminals of 15A 250V	
Isolator:	6 mm
Screw:	head for slotted screwdriver 3 x 1 mm
 Tightening torque: 	0,5 Nm
Capacity:	Flexible wires 0,14 ÷ 2,5 mm2 (26 ÷ 13 AWG)
	Stiff wires 0,14 ÷ 4 mm2 (26 ÷ 11 AWG)
Entrance:	2,5 mm x 3 mm
Terminal L:	Linea
Terminal N:	Neutral
Terminal 1:	Relay output
Terminal P:	Input for external push button
IMPORTANT: to got the gight	cignolization of the lead status is passessed a minimum consumption of 10M

IMPORTANT: to get the right signalization of the load status is necessary a minimum consumption of 12W

Controlled load		-\\\\\\\	M	
230 V~	16 A	10 A	10 A	10 A



HOTEL MANAGEMENT

441074-W 445074-W 449074-W

443074-W

□ 441074-W ■ 445074-W 449074-W

2.4GHz wireless electronic control relay with 16A 230Vac 50Hz output
- loT technology on standard Wi-Fi® to create the domina smart loT and IEEE 802.11 mesh networking systems - 230 Vac power supply - including front panel - Domus - Tekla

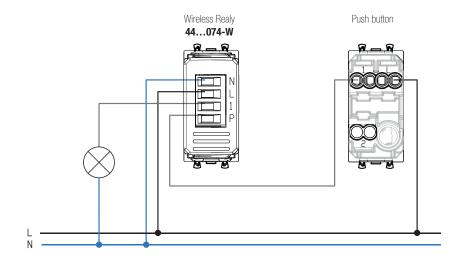
- Class series - 1 module

■ 442074-W **443074-W**

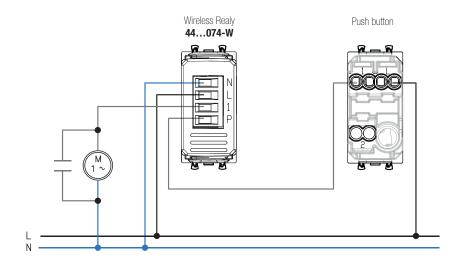
2.4GHz wireless electronic control relay with 16A 230Vac 50Hz output - IoT technology on standard Wi-Fi® to create the domina smart IoT and IEEE 802.11 mesh networking systems - 230 Vac power supply - including front panel - Life - Allumia series- 1 module

TECHNICAL INFO

442074-W









TECHNICAL CATALOGUE

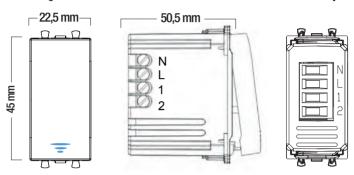
Connected Wiring Accessories series with WiFi mesh

442002ST-W - IoT TWO WAY SWITCH - 1MOD. S.44



The mechanism of two-way electronic switch of the range Domina Smart Wireless IoT with a relay output 230Vac can control incandescent lamps of 500W, LED lamps up to 100W, electronic transformers of up to 250VA, fluorescent lamps of 120W. furthermore, the device can be managed locally or remotely with the double technology IoT on standard WiFi® for the realization of mesh domina smart IoT and IEEE 802.11. the frontal local button allows the control of the load and to recall a scene with the long pressing. The device is characterized by the presence of a BLUE LED with adjustable intensity/brightness, power range from 100 to 240 Vac. The device must be completed with a frontal interchangeable key of 1 module S44 (44xTGP-W).

The two-way electronic switch of the range Domina smart wireless IoT allows the control of the load by means of the frontal button, through



wireless connection and through a home automation system DOMINA smart IoT Avebus completed with supervisor.

The device does not require any communication gateway, it has the possibility to be controlled:

- In Wi-Fi® DIRECT mode, in which a device of your choice within the system is identified as a Wi-Fi® Access-Point, which by generating the Wi-Fi® network itself allows local dialogue with the AVE Cloud application;
- In DOMESTIC ROUTER mode, in which a device chosen (by the programmer) within the system is identified as a Root-Node, by connecting to the Wi-Fi® network generated by the home router allows local and remote supervision, using AVE Cloud application and the most common Voice Assistants connected to the cloud:

The device is equipped with a relay output to perform the function of a two-way switch; frontal button for controlling the connected load (by short press) and recalling the linked scene (by long press).

It automatically opens the relay for thermal protection and the switching occurs on zero crossing. The device can be connected to 1way, two-way or inverted switching lines already existing making "connected" the load function. In the event of a power failure, the load is restored in the status before the interruption;

IMPORTANT: the electronic relay should be powered from the same line (L) and beutral (N) of the load (check diagram). The load should exceed a power of 5W for the correct detection. For inductive loads it recommended to install a filter RC (snubber) to the load.

Technical features

	Compatible with all System44 items, installation into boxes with Ø59mm		
 Dimension 	1mod.S44 (22,5 x 45 x 50,5) mm		
 Protection degree: 	IP20. If installed in dedicated boxes: IP40		
Weight:	38g		
Frontal LED:	Blu led with adjustable intensity for individuation in darkness		
	and indication of the configuration status (blinking)		
 Frontal button 			
4 terminals of 15A 240V			
Isolator:	6 mm		
Screw:	head for slotted screwdriver 3 x 1 mm		
Tightening torque:	0,5 Nm		
Capacity:	Flexible wires $0,14 \div 2,5 \text{ mm2}$ ($26 \div 13 \text{ AWG}$)		
	Stiff wires 0,14 ÷ 4 mm2 (26 ÷ 11 AWG)		
Entrance:	2,5 mm x 3 mm		
Terminal L:	Linea		
Terminal N:	Neutral		
Terminal 1:	Relay output (Line interruption)		
Terminal 2:	Relay output (Line interruption)		

IMPORTANT: To have the correct signaling of the load status, a minimum absorption of 5 W.

Controlled load	-\\[\]-		=====	
100 V~	250 W	50 W	65 W	125 VA
240 V~	500 W	100 W	120 W	250 VA











441TGP-W 445TGP-W 449TGP-W 442002ST-W



442TGP-W 443TGP-W

442002ST-W

2.4GHz wireless electronic two way switch with 230Vac 50Hz relay output for 500 W incandescent bulbs, 100 W LED bulbs, 250 VA electronic transformers, 120 W fluorescent bulbs - IoT technology on standard Wi-Fi® to create IoT and IEEE 802.11 domina smart mesh network systems - 230 Vac power supply - to be completed with interchangeable buttons 1 module code 44...TGP-W.

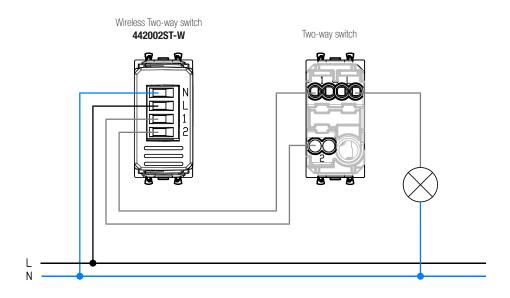
□ 441TGP-W **■ 445TGP-W** 449TGP-W

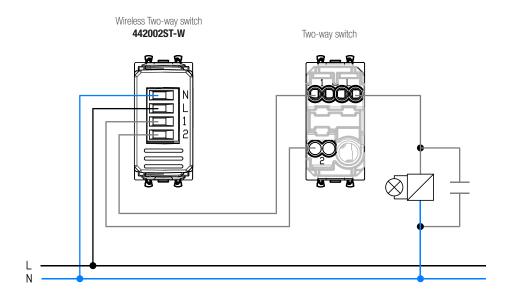
Interchangeable rocker for wireless electronic two-way switch - Domus, Tekla, Class - 1 module

■ 443TGP-W ■ 442TGP-W

TInterchangeable rocker for wireless electronic two-way switch - Life, Allumia - 1 module

TECHNICAL INFO





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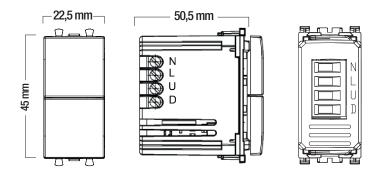
TECHNICAL CATALOGUE

Connected Wiring Accessories series with WiFi mesh

442053ST-W - IoT ROLLING BLIND SWITCH - 1 MOD. S.44



Electronic rolling blind switch mechanism of the DOMINA smart wireless IoT range for 1 roller shutter with slats orientation relay output for motor $\cos \varphi$ 0.65 2A 100-240 Vac 50/60 Hz locally or remotely controlled, double IoT technology on Wi-Fi® mesh standard IoT Domina smart systems and IEEE 802.11, double front button for actuator control, preferred position recall function, identification in the dark with adjustable intensity BLUE LED, 100-240 Vac power supply, to be completed with two half buttons interchangeable 1 module cod. 44... TGC-W. The electronic rolling blind switch of the DOMINA smart wireless IoT range allows you to control the shutter with orientation of the slats via the double front button via a wireless connection and through the system AVEbus DOMINA smart IoT home automation with a supervisor.



The device does not require any communication gateway, it has the possibility to be controlled:

- In Wi-Fi® DIRECT mode, in which a device of your choice within the system is identified as a Wi-Fi® Access-Point, which by generating the Wi-Fi® network itself allows local dialogue with AVE Cloud application;
- In DOMESTIC ROUTER mode, in which a device chosen (by the programmer) within the system is identified as a Root-Node, by connecting to the Wi-Fi® network generated by the home router allows local and remote supervision, using AVE Cloud application and the most common Voice Assistants connected to the cloud

The device is equipped with 2 monostable output relays with interlock function. In the event of a power failure, the 2 relays remain open. The double front buttons control the connected rolling shutter as follow:

- Short press: the higher button raises the shutter and the lower key lowers it until the end of line.
- Long press: it makes the rolling shutter moving in the desired direction if it is stopped, if it is in movement the long press stopped it and if it is closed the slats rotate;
- Double press of both buttons: recall of the preferred position (storage via AVE Cloud App).

IMPORTANT: the electronic relay must be powered with the same Line L and Neutral N that power the load (see diagram). For inductive loads it recommended to install a filter RC (snubber) to the load

Technical features

Compatible with all System44 items, installation into boxes with Ø59mm		
 Dimension 	1mod.S44 (22,5 x 45 x 50,5) mm	
 Protection degree: 	IP20. If installed in dedicated boxes: IP40	
Weight:	38g	
Blue signaling LED with ad	justable intensity for identification in the dark and signaling of the configuration status (flashing).	
 Double front button 		
4 terminals of 16A 250V		
Isolator:	6 mm	
Screw:	head for slotted screwdriver 3 x 1 mm	
 Tightening torque: 	0,5 Nm	
Capacity:	Flexible wires 0,14 ÷ 2,5 mm2 (26 ÷ 13 AWG)	
	Stiff wires 0,14 ÷ 4 mm2 (26 ÷ 11 AWG)	
Entrance:	2,5 mm x 3 mm	
Terminal L:	Linea	
Terminal N:	Neutral	
Terminal U:	Line interrupted - Up (UP)	
Terminal D:	Line interrupted - Down (DOWN)	

Controlled load	
100 V~	2A cosφ 0.65
240 V~	2A cosφ 0.65











442053ST-W 441TGC-W 445TGC-W 449TGC-W

442053ST-W

2.4GHz wireless electronic rolling blind switch for 1 standard roller shutter or with slat tilting - changeover relay output for motor cosφ 0.65 2° 230 Vac 50 Hz - IoT technology on standard Wi-Fi® to create IoT and IEEE 802.11 smart domina mesh network systems - 230 Vac power supply - to be completed with two interchangeable half-buttons - 1 module

■ 445TGC-W 449TGC-W

Interchangeable rocker with arrows for wireless electronic rolling blind switch Domus, Tekla, Class - 1 module

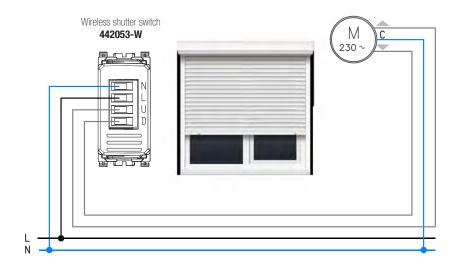
■ 443TGC-W ■ 442TGC-W

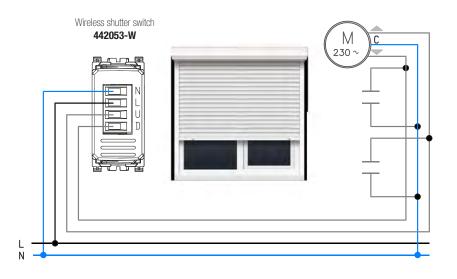
Interchangeable rocker with arrows for wireless electronic rolling blind switch Life, Allumia - 1 module



442TGC-W 443TGC-W

TECHNICAL INFO







TECHNICAL CATALOGUE

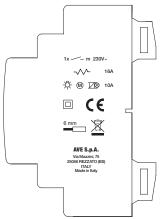
Connected Wiring Accessories series with WiFi mesh

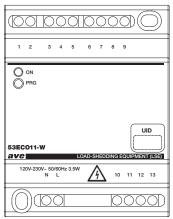
53EC011-W - IoT LOAD CONTROL FOR SINGLE-PHASE SYSTEMS - 4 MOD. DIN



53EC011-W is a device for monitoring power consumption, monitoring self-production by means of photovoltaic panels and controlling electrical loads within a residential context with single-phase users (230Vac/50Hz) and power used not exceeding 10kW.

The device envisages the connection of two TA current transformers, one to measure the power and the energy taken from and/or delivered to the grid (exchange TA) and a second transformer to measure the power and energy produced by the self-production photovoltaic system (production TA).





Based on the parameter programming, the device can optimise the excess energy produced by the photovoltaic system.

The device is also able to control the power consumption of the home, keeping the power taken from the grid within the set threshold (contractual power of the user) by controlling the "loads" by means of home automation / IoT actuators: the device connects and/or disconnects the loads following the set order of priority to keep the maximum power used (set during the configuration phase) within the set limits, taking into account the power of each load and the power that can still be taken from the meter. In this way, the device prevents user overload (if several high-consumption appliances are switched on at the same time), thus avoiding the intervention of the thermal protection of the meter.

Technical specifications

The specifications are described with reference to fig.1:			
Container:	4 DIN modules		
Dimensions:	(70 x 89 x 66) mm		
 Degree of protection: 	IP20 (IP 30D in the special containers)		
Colour of container:	grey RAL 7016		
• Fixing:	on EN 50022 DIN rail or directly on the panel, using		
	the special holes for screws (Ø 4mm max)		
Operating position:	vertical		
Terminal boards:	16A-250V		
 ON signalling LED: 	There is a yellow optical signalling light on the front.		
 PRG programming butte 	on		
Insulation stripping:	6 mm		
Screw:	slotted screwdriver head 3 x 1 mm		
Tightening torque:	0.5 Nm		
Capacity:	flex wire 0.14 ÷ 2.5 mm2 (26 ÷ 13 AWG)		
	rigid wire 0.14 ÷ 4 mm2 (26 ÷ 11 AWG)		
Opening:	2.5 mm x 4 mm		
Terminal N:	Neutral		
Terminal L:	Line		
Terminals 1 and 2:	Clean contact output for Storage Tank control		
Terminal 3:	Temperature Probe Connection for Storage Tank		
Terminal 4:	PWM for Storage Tank control		
• Terminal 5:	GND -common for terminals 3 and 4-		
Terminals 6 and 7:	Clean contact input:		
	Storage Tank management consent.		
Terminals 8 and 9:	Clean contact input:		
	Storage Tank management consent.		
Terminals 10 and 11:	Exchange TA connection (pay attention to the direction		
indicated on the wiring diagram and to the arrow on the TA.			
	Terminal 10 white - Terminal 11 black)		
• Terminals 12 and 13:	Production TA connection (pay attention to the direction		
	indicated on the wiring diagram and to the arrow on the TA.		
	Terminal 12 white - Terminal 13 black)		

HOTEL MANAGEMENT









53ECOR16A-W

53EC011-W

Device for monitoring power consumption, monitoring self-production by means of photovoltaic panels and controlling electrical loads within a residential context with single-phase users (230Vac/50Hz) and power used not exceeding 10kW. - IoT technology on standard Wi-Fi® to create IoT and IEEE 802.11 domina smart mesh network systems - 230 Vac power supply - 4 DIN modules

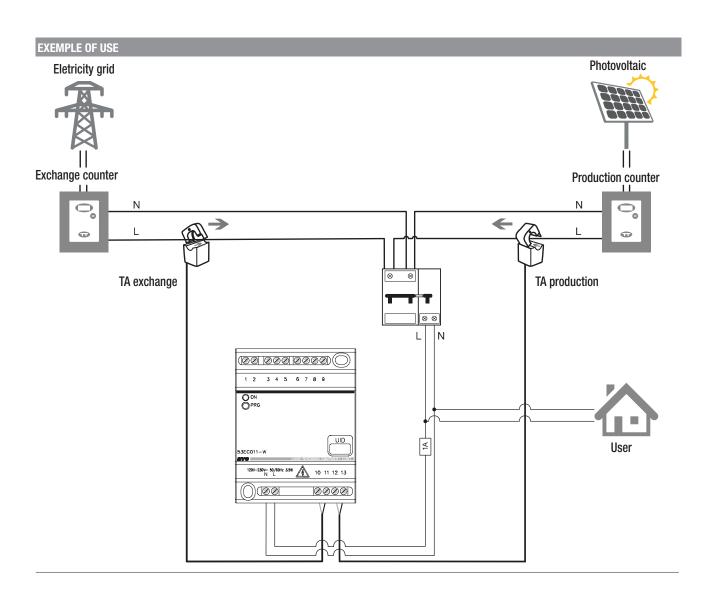
53ECOR16A-W

Device with actuator function and power consumption meter - 16A 230Vac 50Hz relay output - IoT technology on standard Wi-Fi® to create IoT and IEEE 802.11 domina smart mesh network systems - 230 Vac power supply - 2 DIN modules

TECHNICAL INFO

53EC011-W

LOAD	-	-\\\-	M	
230 V~	16 A	10 A	10 A	10 A





TECHNICAL CATALOGUE

Connected Wiring Accessories series with WiFi mesh

442TC16-W - IoT MULTI-TOUCH CONTROL - 3 MOD. S.44



The 442TC16-W multi-touch control block is a 2.4GHz wireless electronic device. It is a multi-function appliance with IoT technology on standard Wi-Fi®to create IoT and IEEE 802.11 domina smart mesh network systems. 230 Vac power supply, to be completed with touch plates.

The electronic multi-touch control from the DOMINA smart wireless IoT range has: two local IoT relays (L1; L2) that act in pairs to control a two way switch or roller shutter control (the two relays have an AVEbus address). Two contact closure relays (L3; L4 - relays with no addresses) which close when there is pressure on the keypad and open when the appropriate configured keys are released. An input (P) for an external pulse command to switch relays L1; L2 if they are configured as two way switches.

The front area of the device is divided into 9 sensitive zones, divided into 3 columns of 3 zones each. The central zone, or the two high+low zones, or no zone can be activated for each column. You can, therefore, have from a minimum of one (at least one zone must be defined) active sensitive zone up to a maximum of 6 zones.

During programming, you can choose which zones to activate and which functions to assign by configuring the columns:

- one column is used to control the local relay pair and can be configured with the central touch button for two way switch control or with the up/down touch buttons for shutter control;
 - the other two columns can be used to control:
 either the local relay with no address with central touch button only;

or remote activations by sending radio frames to the two way switches or IoT outlets with the column set with central touch or up/down button or both buttons with different commands.

There is also a mode in which none of the columns are connected to the local IoT load with an address, in which case the touch keypad becomes a pure control element.

The device does not require a communication gateway and can, therefore, be managed in two ways:

- Wi-Fi® DIRECT mode. A device of your choice within the system is identified as a Wi-Fi® Access-Point. By independently generating the Wi-Fi® grid, it enables local dialogue with the AVE Cloud application;
- DOMESTIC ROUTER mode. A device of your choice in the system is identified as the Root-Node. Connecting to the Wi-Fi® grid (generated by the home router) allows supervision, both local and remote, via the AVE Cloud application and popular cloud-connected Voice Assistants.

IMPORTANT: the electronic device must be powered with the same Line (L) and Neutral (N) that powers the load (see diagram). The load must be greater than 5W for correct detection. If an inductive load is connected, we recommend installing an RC filter (snubber) to be connected near the load.

Technical specifications

Toolinious operations			
Compatible with all elements of System 44.			
• Container: 3-module S44 (67 l x 45 h x 40 d) mm			
 Degree of protection: 	IP20. When installed in the appropriate containers: IP40		
Weight:	90 g		
Optical signals (LEDs) are	e visible on the front in the enabled areas: both the intensity and the colour can be set during		
programming (blue, amber	r or purple). When the touch is recognized, the LED emits a more intense light.		
Front touch buttons. Side	button for programming (the button must be pressed using a slotted screwdriver)		
8-pole 16A 250V~ termina	al block		
Insulation stripping:	6 mm		
Screw:	slotted screwdriver head 3 x 1 mm		
Tightening torque:	0.5 Nm		
Capacity:	flex wire 0.14 ÷ 2.5 mm2 (26 ÷ 13 AWG)		
	rigid wire 0.14 ÷ 4 mm2 (26 ÷ 11 AWG)		
Opening:	2.5 mm x 3 mm		
Terminal L1:	Line to IoT Device interrupted (Roller shutter Div/UP)		
Terminal L2:	Line to IoT Device interrupted (Roller shutter Div/Down)		
Terminal L3:	Line to First Local Stand Alone Button interrupted		
Terminal L4:	Line to Second Local Stand Alone Button interrupted		
Terminals P:	Button input for remote operation		
Terminal L:	Line		
Terminal N:	Neutral		







442TC16-W

442TC16-W

Multi-function 2.4GHz wireless electronic multi-touch device with IoT technology on standard Wi-Fi® to create IoT and IEEE 802.11 mesh network systems - 230 Vax power supply - to be completed with AVE Touch plates - 3 modules.

TECHNICAL INFO Wireless Multi-touch Wireless Multi-touch control 442TC16-W control 442TC16-W Two way switches 0000 P LN

To be completed with system 44 front plates:

7







PRG ⊏

44PATC16...



TECHNICAL CATALOGUE

Connected Wiring Accessories series with WiFi mesh







The 442TC16-W multi-touch control block is a 2.4GHz wireless electronic device. It is a multi-function appliance with IoT technology on standard Wi-Fi®to create IoT and IEEE 802.11 domina smart mesh network systems. 230 Vac power supply, to be completed with touch plates.

The electronic multi-touch control from the DOMINA smart wireless IoT range has: two local IoT relays (L1; L2) that act in pairs to control a two way switch or roller shutter control (the two relays have an AVEbus address). One contact closure relay (L3- relay with no addresses) which close when there is pressure on the keypad and open when the appropriate configured keys are released. An input (P) for an external pulse command to switch relays L1; L2 if they are configured as two way switches.

The front area of the device is divided into 9 sensitive zones, divided into 3 columns of 3 zones each. The central zone, or the two high+low zones, or no zone can be activated for each column. You can, therefore, have from a minimum of one (at least one zone must be defined) active sensitive zone up to a maximum of 4 zones.

During programming, you can choose which zones to activate and which functions to assign by configuring the columns:

- one column is used to control the local relay pair and can be configured with the central touch button for two way switch control or with the up/down touch buttons for shutter control;
 - the other two columns can be used to control:
 either the local relay with no address with central touch button only;
- or remote activations by sending radio frames to the two way switches or IoT outlets with the column set with central touch or up/down button or both buttons with different commands.

There is also a mode in which none of the columns are connected to the local IoT load with an address, in which case the touch keypad becomes a pure control element.

The device does not require a communication gateway and can, therefore, be managed in two ways:

- Wi-Fi® DIRECT mode. A device of your choice within the system is identified as a Wi-Fi® Access-Point. By independently generating the Wi-Fi® grid, it enables local dialogue with the AVE Cloud application;
- DOMESTIC ROUTER mode. A device of your choice in the system is identified as the Root-Node. Connecting to the Wi-Fi® grid (generated by the home router) allows supervision, both local and remote, via the AVE Cloud application and popular cloud-connected Voice Assistants.

IMPORTANT: the electronic device must be powered with the same Line (L) and Neutral (N) that powers the load (see diagram). The load must be greater than 5W for correct detection. If an inductive load is connected, we recommend installing an RC filter (snubber) to be connected near the load.

Technical specifications

Compatible with all elements of System 44.			
Container:	2-module S44 (45 x 45 x 40 d) mm		
 Degree of protection: IP20. When installed in the appropriate containers: IP40 			
Weight:	•		
Optical signals (LEDs) are	e visible on the front in the enabled areas: both the intensity and the colour can be set during		
programming (blue, ambe	r or purple). When the touch is recognized, the LED emits a more intense light.		
Front touch buttons. Side	button for programming (the button must be pressed using a slotted screwdriver)		
6-pole 16A 240V~ termina	al block		
Insulation stripping:	6 mm		
• Screw:	slotted screwdriver head 3 x 1 mm		
 Tightening torque: 	0.5 Nm		
Capacity:	flex wire 0.14 ÷ 2.5 mm2 (26 ÷ 13 AWG)		
	rigid wire 0.14 ÷ 4 mm2 (26 ÷ 11 AWG)		
Opening:	2.5 mm x 3 mm		
Terminal L1:	Line to IoT Device interrupted (Roller shutter Div/UP)		
Terminal L2:	Line to IoT Device interrupted (Roller shutter Div/Down)		
Terminal L3:	Line to First Local Stand Alone Button interrupted		
Terminals P:	Button input for remote operation		
Terminal L:	Line		
Terminal N:	Neutral		

HOTEL MANAGEMENT



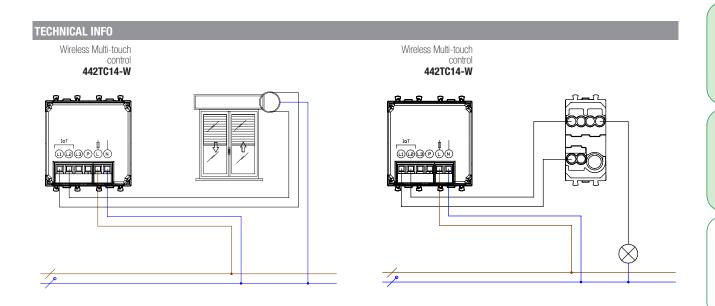


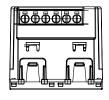
442TC14-W

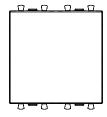


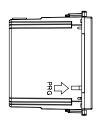
442TC14-W

Multi-function 2.4GHz wireless electronic multi-touch device with IoT technology on standard Wi-Fi® to create IoT and IEEE 802.11 mesh network systems - 230 Vax power supply - to be completed with AVE Touch plates - 2 modules.









To be completed with system 44 front plates:









AVE Bus professional home automation system



AVE PATENT N° 257 EU MODEL

Design:

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





Domina smart Overview and Functions Touch screen and web server Devices

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Номе Аптоматі

HOTEL MANAGEMENT

/IDEO INTERCO

NTI INTRUSI

Wiring diagrams and Prescriptions



TECHNICAL CATALOGUE

Home Automation

DOMINA PRO OVERVIEW

30







Compatibility with FREENET MK3





For availability of the integrated system with the sound diffusion, please contact our technical assistance





Systems Interaction for System Integrator









Connected wiring accessories series with WiFi mesh



A B C

Motion Sensors



Thermoregulation





3-

Номе Аυтоматіом

HOTEL MANAGEMENT

VIDEO INTERCOM





Centralized Air Conditioning









DAIKIN*

HITACHI*

CHI* MITSUBISHI ELECTRIC*

For availability of the integrated system with the vmc and air conditioning, please contact our technical assistance



Home automation supervision both locally and remotely through Ave cloud





IR controls (air condtioning, stereo, Hi-Fi, etc...)



DALI Lighting interface



Consumption Control



Description of the DOMINApro System

FUNCTIONS

DOMINA: a range of devices for simple, basic home automation, with the choice of using only basic functions or the complete home automation system, for high value installations, with matching devices and interfaces made of sophisticated materials and design features.



ON/OFF control and management using presence and daylight sensors



ON/OFF control and dimming of light intensity using standard 1-10V.



Shutter

Controlled Opening and Closing of main electrical drive systems.



Load control

ON/OFF control based on actual consumption and associated priorities.



Energy saving

Monitoring of electricity, water and gas consumption with graphic consumption displays.



" Temperature control

Multi-zone temperature control with energy saving function in case of open windows.



Anti-intrusion alarm system

Supervision and control of the AVE anti-intrusion system with graphic maps of alarm areas.



Sound system

Supervision and control of the multizone "MondoT" Audio system by TUTONDO. For further information, please contact the sales network.



IP video intercom

Integration with VoIP devices.



Supervision

Control of home automation functions using mobile devices, locally and remotely.



Scenarios

Control of order sequences to reestablish predetermined settings for various situations.



((•))) Technical alarms

Management and control of water and gas leaks and other technical alarms, as required.

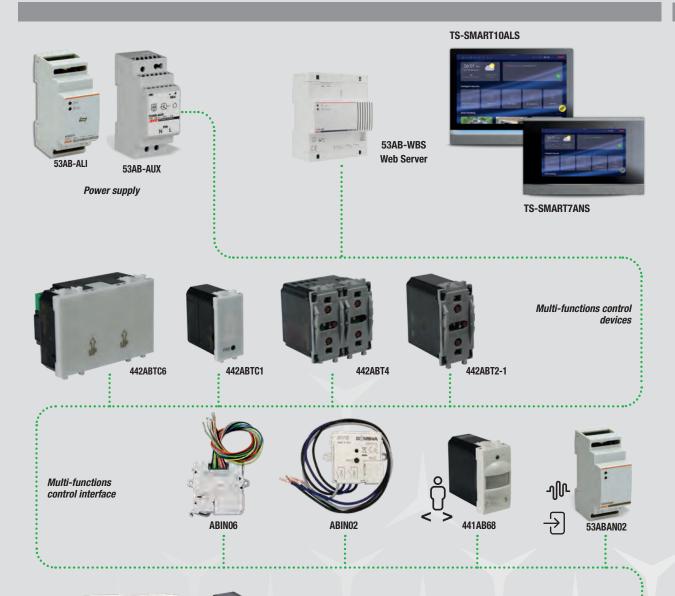




VIDEO INTERCOM

HOTEL MANAGEMENT

WIRING DIAGRAMS AND PRESCRIPTIONS





53ABR8





442ABT4R2



441ABDI



Actuation devices (lights, dimmer or shutters)



Description of the DOMINApro System

SUPERVISORS

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TS01 TS05N-V TS04X-V Colour 15" display (4:3) Colour 12" display (4:3) Colour 4,3" display (16:9) Environment representation through Representation of the environments with graphic maps menus and icons Local supervision through android Local supervision through android and iOs applications, and iOs applications, and/or through web pages. Remote supervision through ave cloud (IoT) and/or through web pages. Remote supervision through ave cloud (IoT) Videointercom compatibility SIP VoIP standard N.D. (Without authentication on SIP server - peer to peer) Local view compatible with H264 cameras and Motion JPEG (RTSP) N.D Compatible with Anti-intrusion central unit AF949PLUS or AF999PLUS (TSINTO2) - AF927PLUS (Wi-Fi)

Annex





lot, Cloud and Supervision



Videointercom





HOTEL MANAGEMENT

VIDEO INTERCOM

53AB-WBS

TS10...-V

TS-SMART10...

















TS-SMART7...

Colour 7" or 10" display (16:9)

Environment representation through icons, graphical photo maps and menu on mobile devices

Web Server

Environment representation through photo maps (combined with Web Server 53AB-WBS or a different home automation Supervisor)

Local supervision through android and iOs applications, and/or through web pages. Remote supervision through ave cloud (IoT)

Remote call answering Video intercom systems via the dedicated AVE Intercom app for devices with IoS and Android operating system

Remote call answering Video intercom systems via the dedicated AVE V44 remote app for devices with IoS and Android operating system

N.D.





N.D

Local view compatible with H264 cameras

Compatible with anti-intrusion central unit AF949PLUS or AF999PLUS (TSINTO2) AF927PLUS (Wi-Fi) or AF927PLUSTC (Wi-Fi)

Compatible with anti-intrusion central unit AF927PLUS (Wi-Fi) or AF927PLUSTC (Wi-Fi)



Video-camera



Antintrusion

ANTI INTRUSION



Description of the DOMINApro System

CONTROLS, ACTUATORS AND SCENARIOS





LIGHTING



AUTOMATION





LIGHTING



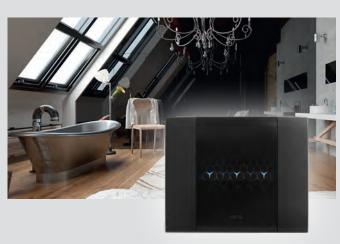
AUTOMATION



TEMPERATURE



SUPERVISION





LIGHTING



AUTOMATION



TEMPERATURE CONTROL



SUPERVISION



ANTI-INTRUSION ALARM SYSTEM



37

оме Аυтоматіон

HOTEL MANAGEMENT

/IDEO INTERCON

The DOMINA^{pro} system is based on distributed logic technology. Hence, the system exploits this essential feature to provide a range of devices that form two macro groups: control devices and actuator devices.

The first group, the home automation control devices, includes all devices that act as a user interface. Such as button controls, ambient temperature switch and customisable MULTI-TOUCH control.

The second group, the actuator devices, includes devices that electrically implement the order received, depending on the type of load to be managed. Such as the actuator for the shutters rather than the temperature control actuator.

Both groups of devices are developed in boxes for hidden installation, in a panel (DIN modules) and/or aesthetically match AVE's wiring accessories. This makes the system scalable to suit the final user's needs.







44PSMTC3GTK

DOMINA^{pro} can be used to create a home automation system where the modules are distributed in a way that optimises the use of electrical panels of reasonable dimensions, a particularly sensitive point in small homes where space for large electrical panels is hard to find without disturbing the aesthetic effect of the living space.

Supervision devices come with the scenario function, a particular home automation function that allows you to set the controlled devices to a certain condition that is stored in the system's memory. For example, it would be nice if your home woke up with you, raising the shutters to let the sunlight in, turning on the heating, switching off the burglar alarm, etc. Or else, it would be nice to make the home secure by activating the burglar alarm and preventing energy wastage by adjusting the air conditioning and switching off any unnecessary loads when you are away from home.

Domina can do all this by means of the scenarios, a range of multiple controls that concomitantly manage various programmed functions of the supervision devices. Simply activate the dedicated scenario and DOMINA^{pro} will release you from all those repetitive actions that mark the various moments of day.

A scenario can be called up by simply pressing a home automation button, or by using an infra-red remote control to click on the relative icon on the fixed Touch Screen display, or from any computer in the house, or from outdoors, even with a mobile device connected to the Web pages of the Web Server device. Scenarious can also be automatically called up according to a cyclic hourly, weekly or monthly time schedule.







Description of the DOMINApro System

TEMPERATURE CONTROL AND AIR CONDITIONING

38

DOMINA^{pro} can be used to supervise 239 temperature zones, each with its own weekly program for summer and winter, within which the temperatures for energy saving, pre-comfort and comfort for each season are established. Furthermore, each temperature zone is also able to control an air conditioner via the infra-red interface, thus making the DOMINA^{pro} home automation system versatile and integrated with the components of the domestic system.

The supervision devices, Touch Screen and Web Server, monitor the entire temperature control system, also acting as a centralised user graphic interface. From these devices it is possible to:

- Switch the temperature zone on and off
- Set the season (Summer / Winter)
- Set the ambient temperature desired in "Temporary" or "Permanent" mode
- Set the maximum speed of any fan coil unit to improve living comfort
- Customise the weekly programme
- Display the status of any window present in the temperature zone and disable its control to obviate any failures in the fittings.
- Lock and Unlock the keypad of the ambient thermostat to protect its setting

The ambient temperature thermostat allows the user to use the front buttons to temporarily override the Set Point of the weekly Programme in operation, which is present in the home automation supervisors (Touch Screen or Web Server). This regulation field is determined during installation by specific configuration and allows the home automation system to operate in various types of location that need not necessarily be residential.

Furthermore, if window status management is enabled, if the window is open the thermostat will interrupt the air conditioning of the room where it is located, and the ambient temperature shown on the digital display will flash for the entire period of the interruption. When the window is closed again, the air conditioning will come on again automatically and the display will cease flashing and become constant.

The DOMINA^{pro} system can manage up to 239 independent zones. This means the capacity to monitor and control the temperature of every room from a single point, using a simple and user-friendly graphic user interface, increasing comfort and optimising consumption by keeping the classic functions to set the temperature locally by adjusting the thermostat located in each room.

DOMINA^{pro} temperature control can also be controlled remotely. You can use a mobile phone, Smartphone or PC to check and set the temperature even when you are away from home, so that when you return home the conditions are always just right.





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оме Аυтоматіон

HOTEL MANAGEMENT

Mini Touch Screen 4.3" with outdoor temperature probe

In addition to the Supervisor function of the entire home automation system, DOMINA^{pro} integrates the management of temperature zones in which it is located, acting as a genuine home automation chronothermostat by detecting ambient temperature with a dedicated outdoor probe 44..SO-NTC.



TS01

Room thermostat with digital display

Measures room temperature, controls the actuators and window status, ensuring comfort but also energy saving. Also allows to temporarily override the Set Point of the weekly Program that is running.



445ABTM03B

Probe, thermostat and room hygrostat

Measures room temperature, controls the actuators and window status, ensuring comfort but also energy saving.



Temperature control actuators (ON - OFF)

Actuation devices for solenoid valves and/or hydraulic solenoid pumps for a single zone or multiple zones. Can be used for radiator systems with two pipes or four pipes.



445ABRTM-PV ABRTM-PV

Temperature control actuator for fan coil units

Actuation device for the solenoid valve and the three speeds of the fan coil unit. Implements temperature measurement of water delivered to increase comfort by inhibiting ventilation at insufficient temperatures. Can be used for radiator systems with two pipes or four pipes.



OOADITIM-I O

Infra-red interface for air conditioners

Interface to control air conditioners by replicating the action of the original IR remote control. Integrates the DOMINA^{pro} system with leading air conditioner brands.



442AB-IRT



Description of the DOMINAPro System

CONTROLLED MECHANICAL VENTILATION AND FORCED EXTRACTION

40

The integration of DOMINA^{pro} with the new range of Domusair products, using stand alone extraction fans or heat exchangers of the CMV (controlled mechanical ventilation) system allows to control air change in certain conditions, using home automation rather than continual double flow air change with heat recovery, thus making it possible to maintain air quality constant.



Benefits

The double flow CMV (controlled mechanical ventilation) with heat recovery is a simple solution to install. It is highly effective for continual air change, 24 hours a day, throughout the home, offering the maximum living comfort and energy saving. It maintains excellent internal air quality, extracting components that are harmful for both the person's health and for the building itself, and producing fresh filtered air. It ensures not only air change but also excellent heat energy recovery with the highly efficient electrical recovery pack, which has a low consumption motor.

Added value to the building

In latest generation buildings, which comply with strict thermal insulation requirements for the external shell and which, therefore, have no natural air change (drafts from doors and window), the controlled mechanical ventilation with heat recovery makes it possible to keep the level of pollutant components in the rooms constantly under control, thus protecting the health and well-being of the occupants and preventing degradation of the building due to mould and condensation. By installing a heat recovery system, the building acquires added value and reaches high energy classes.

Operation

Stale indoor air, either heated or cooled depending on the season, is extracted

from technical rooms and damp rooms, such the bathroom and kitchen. The heat exchanger, which is the heart of this product, transfers most of its heat energy to the fresh filtered external air, which is emitted heated/cooled and free of impurities into the main rooms of the home, such as the bedrooms and living room. The low power consumption fans run at a continual minimum speed, depending on the air changes required by local regulations. Higher speeds can be obtained automatically by external sensors, such as humidity or CO₂ detectors, or manually by the user when the internal air quality drops.

For further information on the new range of **DomusAir** products request the catalogue of the AVE sales network.

For further information visit the following website: **www.ave.it**







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HOME AUTOMATION

Having an orientation toward continual improvement in terms of efficiency, energy saving and comfort, Ave offers the new home automation interface for distributed management of a controlled mechanical ventilation (CMV) system in domestic or commercial locations in order to create a healthy environment and keep the air healthy. The CMV (cod. 441ABRV1) interface device is able to control mechanical ventilation motors with a standard input of 1-10V and, if required, one or more sensors (up to a maximum of 6 connected to the device cod. 44ABTA with consecutive addresses to that of the interface itself), that detect air quality, relative humidity and CO₂ for air monitoring.

Moreover, with the analogue interface DOMINA^{pro} acquires signals from the air quality sensors and, if necessary, sends the command via the infra-red interface device to manage the single flow ventilation unit alternated with heat recovery, all under optional supervision from the Touch screen.



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HOTEL MANAGEMENT

VIDEO INTERC

ANTI INTRUSION

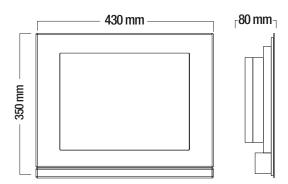
WIRING DIAGRAM



TECHNICAL CATALOGUE DOMINAPIO SUPERVISION DEVICES

DOMINAPRO TOUCH SCREEN WITH 15" GLASS DISPLAY - COD. TS05N-V

The TS05N-V device is a Touch Screen supervisor, which allows users to control their home automation system through a graphical user interface featuring graphic maps to present the living environments with photographs of the rooms. A set of stylised graphic icons and interactive menus allow to control the various home automation functions available. The TS05N-V Touch Screen allows to manage the room's home automation system locally and remotely by appropriately setting up the Ethernet network, performing the functions of "Multi-Zone Chronothermostat", "Scenario Control Switch", "Time Scheduler", "Programmable Logic Management", "Lighting Control", "Shutter Control", "Anti-Intrusion Control" and "Load Supervision Control". It can also generate browser accessible Web pages, which graphically depict the users' home automation system by dividing it into rooms and functions, thus allowing their supervision and control.



In fact, the graphic user interface includes several customisable pages where the user can insert and configure the icons of the application he wants to manage. This graphic image, which is totally customisable, can be a photograph of the room to be controlled, with a 2D layout or a 3D rendering made by the architect or the designer. Through the Touch Screen the user can "surf" the rooms:

- by means of a general map of the whole house;
- by seeing each room graphically represented on a page; the user can either display all the available functions or select the type of function to be displayed by means of a "function filter";

Note: The device is provided with the dedicated clear black glass front plates, and must be completed with the dedicated flush-mounted box.

Technical details

•	Capacitative glass Touch Screen:	15" 430x350 mm (WxH)	
•	flush-mounted box:	provided separately 376x325x80 mm (WxHxD)	
•	Power supply:	- Rated voltage: 12Vdc - 1.2A by dedicated line	
•	Surfing:	using a pull-down menu and customisable graphic maps	
•	Screen:	backlit colour display with 1024x768 pixel resolution	
•	Possibility of managing the scenarios with AVEbus		
•	Virtual simulation of AF983 keypad and related fun-	ctions	
•	Display of Technical Alarms with information that could be helpful for the user to manage the event		
•	Temperature control option		
•	Display of the alarms of the anti-intrusion control unit AF999EXP and AF949		
•	IP camera display (mjpeg video flow)		
•	Management of VoIP Mobotix® video entry phone.		

Connections

•	Terminal 1:	positive power supply (12Vdc)
•	Terminal 2:	negative power supply (GND)
•	Terminal 3:	positive AVEbus
•	Terminal 4:	negative AVEbus
•	I AN notwork connector	

- RS232C connector (for anti-intrusion alarm control unit AF998EXP)

Warnings

DOMINAPTO supervisors manage a maximum of 100 maps, 50 scenarios with a maximum of 300 devices. Consult the "Installation Provisions" at www.ave.it in the section TECHNICAL MANUALS. The remote assistance service is available throughout the product warranty provided that an Internet connection is ensured. Using a dedicated power supply line (UPS) is recommended. Moreover, the user should regularly check for software updates to have the best performance and ensure correct function. Updates can be found through the technical assistance network.









TS05N-V

DOMINAPro 15" Touch Screen with glass front plate and colour graphic LCD display

- Power supply: 12Vdc (Max. 1.7A)
 AVEbus and LAN connection for other online devices.
- Made in monoblock for flush-mounted installation in the dedicated box TS05NBOX.

TS05NB0X

flush-mounted box for brickwork and plasterboard walls, 376x325x80 mm (W H D)















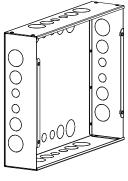




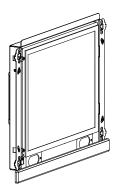


TECHNICAL INFORMATION

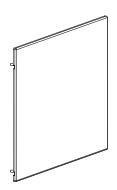






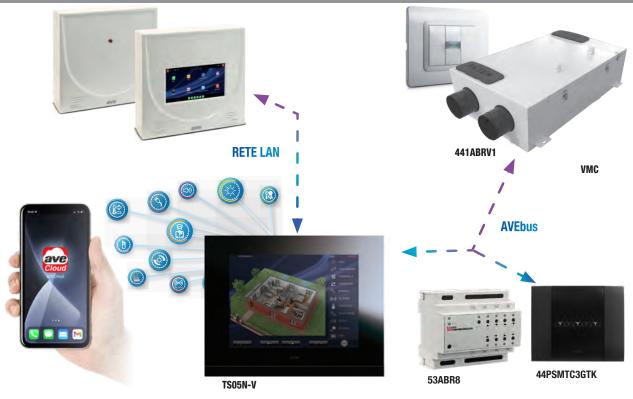


TS05N-V



LIFE COLOUR FRONT PLATE IS INCLUDED

EXAMPLE OF USE

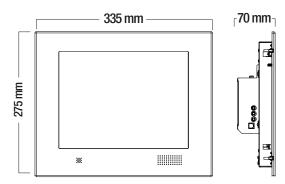




TECHNICAL CATALOGUE DOMINAPIO SUPERVISION DEVICES

DOMINAPRO TOUCH SCREEN WITH 12.1" DISPLAY - COD. TSO4X-V

The TSO4X-V device is a Touch Screen supervisor, which allows users to control their home automation system through a graphical user interface featuring graphic maps to present the living environments with photographs of the rooms. A set of stylised graphic icons and interactive menus allow to control the various home automation functions available. The TSO4X-V Touch Screen allows to manage the automation system locally and remotely by appropriately setting up the Ethernet network, performing the functions of "Multi-Zone Chronothermostat", "Scenario Control Switch", "Time Scheduler", "Programmable Logic Management", "Lighting Control", "Shutter Control", "Anti-Intrusion Control" and "Load Supervision Control". It can also generate browser accessible Web pages, which graphically depict the users' home automation system by dividing it into rooms and functions, thus allowing their supervision and control.



In fact, the graphic user interface includes several customisable pages where the user can insert and configure the icons of the application he wants to manage. This graphic image, which is totally customisable, can be a photograph of the room to be controlled, with a 2D layout or a 3D rendering made by the architect or the designer. Through the Touch Screen the user can "surf" the rooms:

- by means of a general map of the whole house;
- by seeing each room graphically represented on a page; the user can either display all the available functions or select the type of function to be displayed by means of a "function filter";

Note: The device is provided with the dedicated RAL9010 white metal plates, and must be completed with the dedicated flush-mounted box.

Technical details

•	Touch Screen:	12.1"
•	flush-mounted box:	provided separately 320x258x73 mm (WxHxD)
•	Power supply:	- Rated voltage: 12Vdc - 0.7A by dedicated line
•	Surfing:	using a pull-down menu and customisable graphic maps
•	Screen:	backlit colour display with 1024x768 pixel resolution
•	Possibility of managing the scenarios with AVEbus	
•	Virtual simulation of AF983 keypad and related fund	ctions
•	Display of technical alarms with information that could be helpful for the user to manage the event	
•	Temperature control option	
•	Display of the alarms of the anti-intrusion control unit AF999EXP and AF949	
•	IP camera display (mjpeg video flow)	
•	Management of VoIP Mobotix® video entry phone.	

Connections

•	Terminal 1:	positive power supply (12Vdc)
•	Terminal 2:	negative power supply (GND)
•	Terminal 3:	positive AVEbus
•	Terminal 4:	negative AVEbus
_	I AM notucely connector	

- LAN network connector
- RS232C connector (for anti-intrusion alarm control unit AF998EXP)

Warnings

DOMINAPTO supervisors manage a maximum of 100 maps, 50 scenarios with a maximum of 300 devices. Consult the "Installation Provisions" at www.ave.it in the section TECHNICAL MANUALS. The remote assistance service is available throughout the product warranty provided that an Internet connection is ensured. Using a dedicated power supply line (UPS) is recommended. Moreover, the user should regularly check for software updates to have the best performance and ensure correct function. Updates can be found through the technical assistance network.

Home Automation





HOTEL MANAGEMENT

TS04X-V

DOMINApro 12.1" Touch Screen with colour graphic LCD display.

- Power supply: 12Vdc (Max. 12Vdc (Max. 1.2A)
 AVEbus and LAN connection for other online devices.
- Made in monoblock for flush-mounted installation in the dedicated box item cod. TS04XB0X

TS04XB0X

flush-mounted box for brickwork and plasterboard walls, 320x258x73 mm (W H D)

TS04X-V











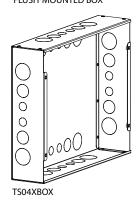


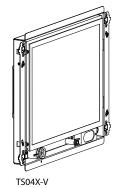


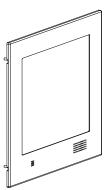


TECHNICAL INFORMATION



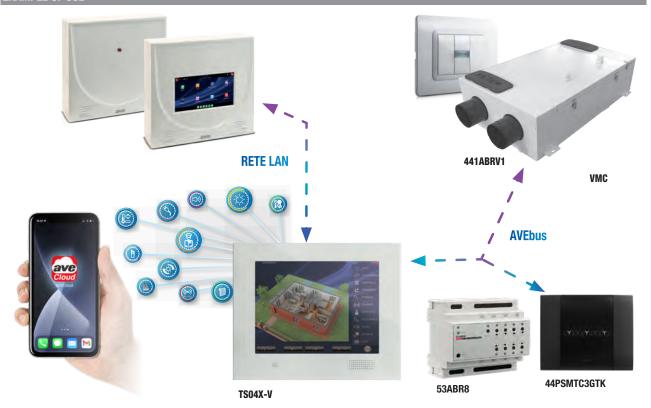






DOMUS COLOUR FRONT PLATE IS INCLUDED

EXAMPLE OF USE





TECHNICAL CATALOGUE DOMINAPIO SUPERVISION DEVICES

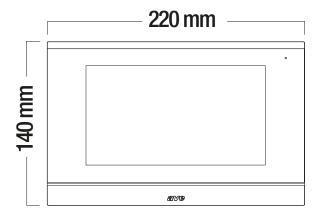
DOMINAPRO TOUCH SCREEN WITH 7" DISPLAY - COD. TS-SMART7...

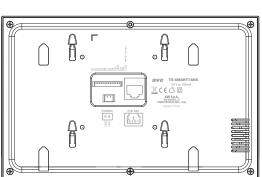
The 7" Android supervisor monitor allows the use of a single device to manage several systems from a single terminal: Home automation, Burglar alarm, video intercom. It is possible to manage all home automation system functions (lights, shutters, heat regulation, etc.), burglar alarm system functions (arming, disarming, partial setting, checking zone status and alarm signals), receive calls from the video intercom

system and manage relays on the outdoor stations.

It is also possible to view images from IP cameras with the same device.

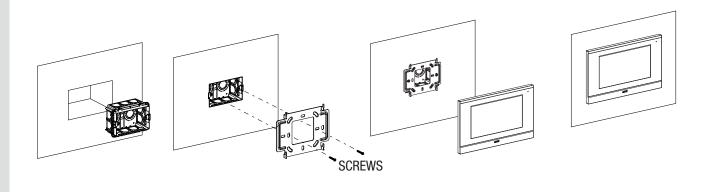
The device also allows the remote answering of video intercom calls via an APP available for iOS and Android operating systems.





27 mm

Installation Example







HOTEL MANAGEMENT



TS-SMART7ALS



TS-SMART7ANS

EXAMPLE OF USE







TS-SMART7ALS

Monitor with 7" colour touchscreen display in 16:9 format. Structure made of glass and aluminium. Input for floor button doorbell, ring mute function, unanswered call log, image capture of incoming call. Door open alarm. "Doctor's studio" function with input display. Wall-mounted installation on 3-module box installed horizontally using the bracket supplied with the device.

Power supply via 24VDC switching or 48VDC PoE switch.

Allows you to view and control:

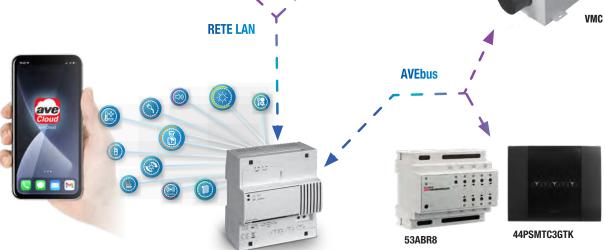
- Domina SMART Home automation (via article 53AB-WBS)
- Related civil series devices (through article 53AB-WBS)
 Direct burglar alarm control units AF927PLUS AF927PLUSTC
- V44 SMART video intercom system
- IP cameras (request a list of compatible cameras from your local technical sales representative or Inteam technical support) The device enables remote answering of an incoming video intercom call via the AVE V44 REMOTE APP available for iOS and Android operating systems. Natural satin finish aluminium colour. Dimensions 220x140x27 mm.

TS-SMART7ANS

As above in satin burnished aluminium colour.

DEVICE NOT COMPATIBLE WITH THE IP DOMINA SMART VIDEO INTERCOM SYSTEM

TS-SMART7ANS 441ABRV1





TECHNICAL CATALOGUE DOMINAPIO SUPERVISION DEVICES

DOMINAPRO TOUCH SCREEN WITH 10" DISPLAY - COD. TS-SMART10..

The 10" Android supervisor monitor allows the use of a single device to manage several systems from a single terminal: Home automation, Burglar alarm, video intercom.

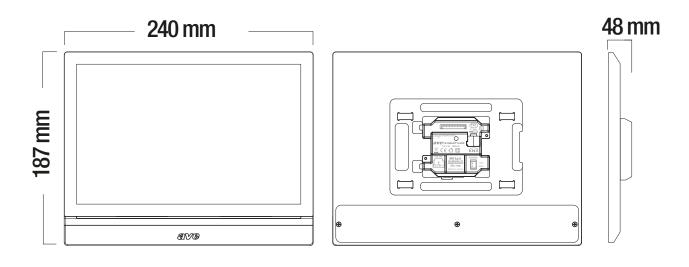
The TS-SMART10xx is also a home automation supervisor for KNX installations with bus connection terminals on board.

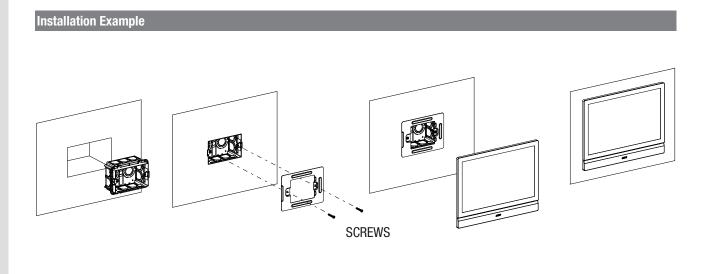
It is possible to manage all home automation system functions (lights, shutters, heat regulation, etc.), burglar alarm system functions (arming, disarming, partial setting, checking zone status and alarm signals), receive calls from the video intercom system and manage relays on the outdoor stations.

It is also possible to view images from IP cameras with the same device.

The device has a LED bar the colour of which can be changed by the user; the same bar is used, in association with the audible alarm, to inform the user of an alarm from the AF927PLUS or AF927PLUSTC burglar alarm control unit.

The device also allows the remote answering of video intercom calls via an APP available for iOS and Android operating systems.









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Номе Аптоматіон

HOTEL MANAGEMENT

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TS-SMART10ALS



TS-SMART10ANS



Monitor with 10" colour touchscreen display in 16:9 format. Structure made of glass and aluminium. Power supply via 24VDC switching or 48VDC PoE switch.

Input for floor button doorbell, ring mute function, unanswered call log, image capture of incoming call. Door open alarm. "Doctor's studio" function with input display. Fitted with LED strip for ambient light with user-selectable colours. Recessed installation in 3-module box installed horizontally using the bracket supplied with the device.

Allows you to view and control:

- Domina SMART Home automation (via article 53AB-WBS)
- Related civil series devices (through article 53AB-WBS)
- Direct burglar alarm control units AF927PLUS AF927PLUSTC
- V44 SMART video intercom system
- IP cameras (request a list of compatible cameras from your local technical sales representative or Inteam technical support)
- Compatible with KNX protocol

The device enables remote answering of an incoming video intercom call via the AVE V44 REMOTE APP available for iOS and Android operating systems. Natural satin finish aluminium colour. Dimensions 240x187x50 mm.

TS-SMART10ANS

As above in satin burnished aluminium colour.

DEVICE NOT COMPATIBLE WITH THE IP <u>DOMINA SMART</u> VIDEO INTERCOM SYSTEM







FOR AVAILABILITY OF THE INTEGRATED SYSTEM WITH KNX, PLEASE CONTACT OUR TECHNICAL ASSISTANCE





TECHNICAL CATALOGUE DOMINAPIO SUPERVISION DEVICES

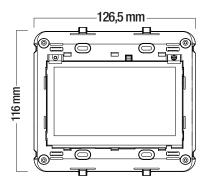
DOMINAPRO TOUCH SCREEN WITH 4,3"DISPLAY - COD. TS01

The TS01 device is a Touch Screen supervisor, which allows users to control their home automation system through a stylised graphical user interface featuring graphic icons and interactive menus. In addition to the Supervisor function, it integrates the function of ambient Thermostat by exploiting the possibility of being connected to an external temperature probe. The TS01 Touch Screen allows to manage the home automation system locally and remotely by appropriately setting up the Ethernet network, the home automation system, performing the functions of "Multi-Zone Chronothermostat", "Scenario Control Switch", "Time Scheduler", "Programmable Logic Management", "Lighting Control", "Shutter Control", "Anti-Intrusion Control" and "Load Supervision Control". It can also generate browser accessible Web pages, which graphically depict

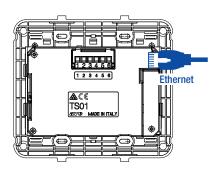
the users' home automation system by dividing it into rooms and functions, thus allowing their supervision and control. The device can be installed either vertically or horizontally (the technical menu of the device contains the icon that allows to change the orientation of user graphics). The device is installed using a flush-mounted box BL02P or cod. BL02CG (the dimensions are given below).

Regarding the electrical wiring, the device needs the connection to AVEbus and, depending on the functions, also an Ethernet connection (using the provided small RJ45 connector) and a connection to the external temperature probe 44..SO-NTC using a 2x0.50 mm2 cable (use ducts that are separated from the power and segments not exceeding 10 m).

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







Technical details

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

Connections

00	illiootiolio	
•	Terminal 1:	Positive BUS
•	Terminal 2:	Negative BUS, Negative power supply and ground references for the NTC sensor
•	Terminal 3:	RS485 (A) – Integration between systems
•	Terminal 4:	RS485 (B) – Integration between systems
•	Terminal 5:	Positive 12Vdc power supply
•	Terminal 6:	Input temperature sensor NTC 10K B=3380K AVE 44SO-NTC) with maximum
		distance from TS01 not exceeding 5 m using a twisted and shielded cable.
•	ETH:	LAN network connector (for space-saving reasons, the connector
		supplied as standard must be used)

DOMINApro supervisors manage a maximum of 100 maps, 50 scenarios with a maximum of 300 devices. Consult the "Installation Provisions" at www.ave.it in the section TECHNICAL MANUALS. The remote assistance service is available throughout the product warranty provided that an Internet connection is ensured. Using a dedicated power supply line (UPS) is recommended. Moreover, the user should regularly check for software updates to have the best performance and ensure correct function. Updates can be found through the technical assistance network.

Technical Details





HOTEL MANAGEMENT

TS01

TS01

DOMINAPro Touch Screen with 4.3" colour display and user interface with icon layout. Vertical or horizontal installation depending on the position of the box BL02...

- Power supply: 12Vdc (Max. 0.5A)
- Operating Room Temperature: 0°C 40°C
- Integrated home automation Web Server
- Combined with the temperature probe, it also works as a chronothermostat.











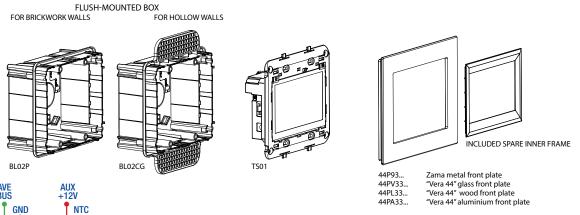


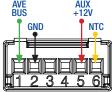






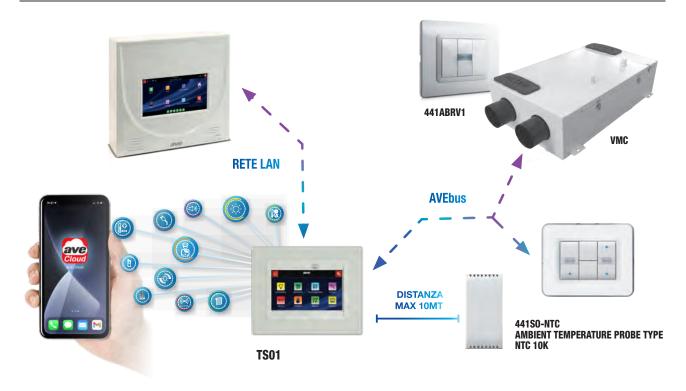
TECHNICAL INFORMATION







Warning: Device power must be from a dedicated line using the power supply unit cod. 53AB-AUX. Installation to be completed with finishing front plate and the included inner frame



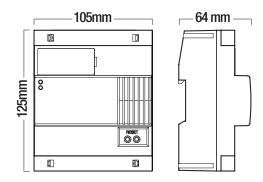


TECHNICAL CATALOGUE DOMINAPIO SUPERVISION DEVICES

HOME AUTOMATION WEB SERVER - COD. 53AB-WBS

The 53AB-WBS device is a Web Server supervisor designed to manage the automation system via PC. Notebook, Tablet and any other mobile device that has a browser, which can display Web pages. The Web Server 53AB-WBS allows to manage the home automation system locally and remotely by appropriately setting up the Ethernet network, the home automation system, performing the functions of "Multi-Zone Chronothermostat", "Scenario Control Switch", "Time Scheduler", "Programmable Logic Management", "Lighting Control", "Shutter Control", "Anti-Intrusion Control" and "Load Supervision Control". The Web pages generated by the browser graphically depict the users' home automation system by dividing it into rooms and functions, thus allowing their supervision and control.

Regarding the electrical wiring, the device needs the connection to AVEbus and also an Ethernet connection.



Too	hnic	al da	ata i	lo

Technical details		
Module:		6 DIN modules (WxHxD) 105 x 125 x 60 mm
 Protection degree: 		IP30 installed in the respective electrical panel
 Power supply from SELV : 	source:	- Rated voltage: 12Vdc
1.1		- Allowed fluctuation: 10.5Vdc - 14Vdc
		- Absorption at 12Vdc: 250 mA max
 Reference Temp. and Rel. 	Humidity:	25°C RH 65%
 Temperature range Opera 	ting environment:	from 0°C to +40°C
 Maximum Relative Humic 	lity:	90% at 30°C
Max. Height:	•	2000 m a.s.l.
Connections		
Terminal [AVEbus AVE]:		Positive BUS
 Terminal [AVEbus GND]: 		Negative BUS,
Terminal [AUX +12]:		Positive 12Vdc power supply
Torminal [ALIV CND].		Negative 1974de nover cumply

•	Terminal [AVEbus GND]:	Negative BUS,
•	Terminal [AUX +12]:	Positive 12Vdc power supply
•	Terminal [AUX GND]:	Negative 12Vdc power supply
•	Terminal [RS232 RX]:	RX for Supervision AF998EXP via TSINT01
•	Terminal [RS232 TX]:	TX for Supervision AF998EXP via TSINT01
•	Terminal [RS232 GND]:	GND for Supervision AF998EXP via TSINT01
•	Terminal [RS485 U2-A]:	"A" for Supervision of the Vivaldi sound system
•	Terminal [RS485 U2-B]:	"B" for Supervision of the Vivaldi sound system
•	Terminal [RS485 U2-GND]:	GND for Supervision of the Vivaldi sound system
	-	-
•	Terminal [RS485 U4-A]:	"A" to communicate with the Modbus gateway to interface with the air conditioners

"B" to communicate with Modbus gateway to interface with the air conditioners

GND to communicate with the Modbus gateway to interface with the air conditioners

ETH Connector LAN network

Terminal [RS485 U4-B]:

Terminal [RS485 U5-GND]:

DOMINApro supervisors manage a maximum of 100 maps, 50 scenarios with a maximum of 300 devices. Consult the "Installation Provisions" at www.ave.it in the section TECHNICAL MANUALS. The remote assistance service is available throughout the product warranty provided that an Internet connection is ensured. Using a dedicated power supply line (UPS) is recommended. Moreover, the user should regularly check for software updates to have the best performance and ensure correct function. Updates can be found through the technical assistance network.

Technical Details





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Номе Дитоматіов

HOTEL MANAGEMENT

VIDEO INTER

122

53AB-WBS

53AB-WBS

Web Server for the supervision of the home automation system using the Ethernet network 6 DIN modules

- Power supply: 12Vdc (Max. 12Vdc (Max. 250mA)
- Operating Room Temperature: 0°C 40°C
- AVEbus and LAN connection for other online devices.
- Made in monoblock for DIN installation

















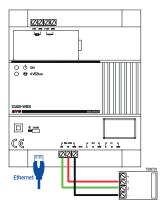


TECHNICAL INFORMATION



Warning:

Device power must be from a dedicated line using the power supply unit cod. 53AB-AUX.



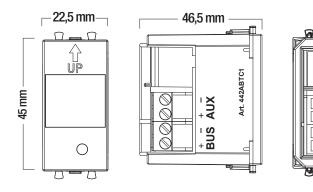




TECHNICAL CATALOGUE DOMINAPIO control devices

1-CHANNEL TOUCH CONTROL DEVICE - 442ABTC1

The 442ABTC1 device is a single-channel bus control with Ave Touch technology, which can control all the actuator devices of the AVEbus family by simply touching the front plate. In the configuration phase the device can be assigned a home automation function, as desired.



Technical details

•	Module:	1 m. "hidden" S.44 (22.5 w x 45 h x 46.5 d) mm, to complete with front plate.
•	Protection degree:	IP41 if completed with front plate and installed in the corresponding flush-mounted
	· ·	box.
•	Reference Temp. and Rel. Humidity:	25°C RH 65%
•	Temperature range Operating environment:	from -10°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.
•	Auxiliary power supply:	- Rated voltage: 12Vac/dc
		- Allowed fluctuation: 10.5V - 14V
		- Absorption at 12Vdc: 6.6 mA MAX
•	Absorption from the AVEbus line:	- With AUX line: 0.2 C
		- Only AVEbus line: 5.0 C

Connections

GUI	Connections				
•	Terminal 1:	positive BUS			
•	Terminal 2:	GND			
•	Terminal 3:	positive auxiliary power			
•	Terminal 4:	negative auxiliary power			

Description of the front

At the front a two colour optical signal makes the device visible in the dark and it can be configured to show the status of the associated receiver.

- Blue LED (working only when the auxiliary power is on)
 - ON, makes the device visible in the dark (with the functions START, STOP, START+STOP, STEP and DIMMER) when the relay contact of the associated receiver is open or when the status signal of the associated receiver has not been configured.
- Amber LED
 - Fast flashing, device being programmed
 - Slow flashing, self-cut out for front plate cleaning
 - ON, relay contact of the associated closed receiver (with lighting function) or shutter open (with shutter function)
- amber / blue LED
 - Alternating, shutter movement in progress

	Function 1:	START	Function 10:	START	(with signal of the status of the associated receiver)
ンソ	Function 2:	STOP	Function 11:	STOP	(with signal of the status of the associated receiver)
<u>"</u> ኢሊ"	Function 3:	STEP	Function 12:	STEP	(with signal of the status of the associated receiver)
	Function 4:	START + STOP	Function 13:	START + STOP	(with signal of the status of the associated receiver)
	Function 5:	DIMMER	Function 14:	DIMMER	(with signal of the status of the associated receiver)
	Function 6:	SHUTTER	Function 15:	SHUTTER	(with signal of the status of the associated receiver)
	Function 7:	DOORS / WINDOWS	Function 16:	DOORS / WINDOWS	(with signal of the status of the associated receiver)
	Function 8:	SUNSHADE	Function 17:	SUNSHADE	(with signal of the status of the associated receiver)
%	Function 9:	VENTILATION	Function 18:	VENTILATION	(with signal of the status of the associated receiver)





5.5

Номе Антоматіом

TEL MANAGEMEN

VIDEO INTERC

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442ABTC1

442ABTC1

1-channel AVE Touch control device - to be used under the AVE Touch front plate - 1 module

FRONT PANEL TOUCH CONTROLS SET UP



LIGHTING

It sends the switch on/off signal, depending on the previous status of the actuator.



AUTOMATION

It sends the open or close signal, depending on the previous status of the actuator. Holding the button pressed down will allow the device to send the movement signal "person present".



1 Touch control



Sends the home automation system the order to execute the relevant scenario.



DIMMER

It sends the switch on/off signal, depending on the previous status of the actuator. Holding the button pressed down will allow the device to regulate brightness.

COMPATIBLE WITH SYSTEM 44 PLATES



44PVTC01...



44PVTC02...



44PSMTC3...



44PVTC03...



44PATC3...



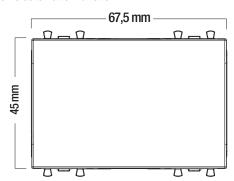
44PJTC3...

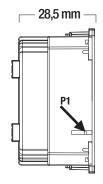


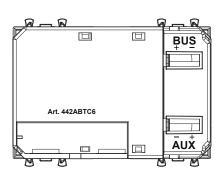
DOMINA^{pro} control devices

6-CHANNEL MULTI TOUCH CONTROL DEVICE - cod. 442ABTC6

The 442ABTC6 device is a 6-channel bus control with Ave Touch technology that can control all the actuator devices of the AVEbus family by simply touching the front plate. It can be set as a control device with 1 to 6 AVEbus channels, each of which can be assigned to an indipendent home automation function.







Technical details

160	chnical details	0 "hidden" C 44 (C7 F 45 h 00 F d)		
•	Module:	3 m. "hidden" S.44 (67.5 w x 45 h x 28.5 d) mm,		
		to be completed with front plate.		
•	Protection degree:	IP41 if completed with front plate and installed in the corresponding		
		flush-mounted box.		
•	Reference Temp. and Rel. Humidity:	25°C RH 65%		
•	Temperature range Operating environment:	from -10°C to +50°C		
•	Maximum Relative Humidity:	90% at 35°C		
•	Max. Height:	2000 m a.s.l.		
•	Auxiliary power supply:	- Rated voltage 12Vac/dc		
		- Admissible variation 10.5V - 14V		
		- Absorption at 12Vdc: 17.5 mA MAX		
•	Absorption from the AVEbus line:	- With AUX line: 0.3 C		
		- Only AVEbus line: 33 C		
Co	nnections			
•	Terminal 1:	positive BUS		
•	Terminal 2:	GND		
•	Terminal 3:	positive auxiliary power		
•	Terminal 4:	negative auxiliary power		

Description of the front

The front area is divided into 9 sensitive zones. During the programming phase the user can choose which to use, from 1 control to 6 controls. At the front a two colour optical signal makes the device visible in the dark and it can be configured to show the status of the associated receiver:

- Blue LED
 - ON, makes the device visible in the dark (with the functions START, STOP, START+STOP, STEP and DIMMER) when the relay contact of the associated receiver is open or when the status signal of the associated receiver has not been configured.
 - Note: The configuration parameter can be used to set the level of brightness.
- Amber LED
 - Fast flashing, device being programmed
 - Slow flashing, self-cut out for front plate cleaning
 - ON, relay contact of the associated closed receiver (with lighting function) or shutter open (with shutter function)
- amber / blue LED
 - Alternating, shutter and door/window fitting movement in progress

	Function 1:	START	Function 10:	START	(with signal of the status of the associated receiver)
-\\\\\	Function 2:	STOP	Function 11:	STOP	(with signal of the status of the associated receiver)
-ኦ,ረ	Function 3:	STEP	Function 12:	STEP	(with signal of the status of the associated receiver)
	Function 4:	START + STOP	Function 13:	START + STOP	(with signal of the status of the associated receiver)
	Function 5:	DIMMER	Function 14:	DIMMER	(with signal of the status of the associated receiver)
	Function 6:	SHUTTER	Function 15:	SHUTTER	(with signal of the status of the associated receiver)
	Function 7:	DOORS / WINDOWS	Function 16:	DOORS / WINDOWS	(with signal of the status of the associated receiver)
	Function 8:	SUNSHADE	Function 17:	SUNSHADE	(with signal of the status of the associated receiver)
%	Function 9:	VENTILATION	Function 18:	VENTILATION	(with signal of the status of the associated receiver)





5

Номе Аυтоматіом

HOTEL MANAGEME

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442ABTC6

442ABTC6

1-6 channel multi touch control device - to be used under the AVE Touch front plate - 3 modules

FRONT PANEL TOUCH CONTROLS SET UP



LIGHTING

It sends the switch on/off signal, depending on the previous status of the actuator.



SCENARIOS

Sends the home automation system the order to execute the relevant scenario.



DIMMER

It sends the switch on/off signal, depending on the previous status of the actuator. Holding the button pressed down will allow the device to regulate brightness.



AUTOMATION

It sends the open or close signal, depending on the previous status of the actuator. Holding the button pressed down will allow the device to send the movement signal "person present".

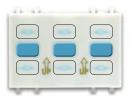
1 Touch control



2 Touch controls



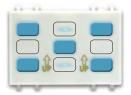
3 Touch controls



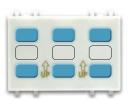
4 Touch controls



5 Touch controls



6 Touch controls



COMPATIBLE WITH SYSTEM 44 PLATES



44PSMTC3...



44PVTC02...



44PVTC03...



44PVTC16...



44PATC3...



44PATC16...



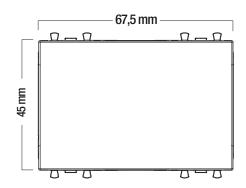
16... 44PJTC3...

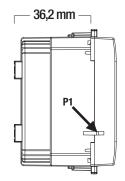


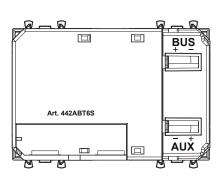
DOMINA^{pro} control devices

6-CHANNEL "TOUCH" CONTROL DEVICE - cod. 44..ABT6S

The device 44..ABT6S is a 6-channel bus control with 2 Touch" technology that is capable of controlling all the actuator devices in the AVEbus family. It can be set as a control device with 2 to 6 AVEbus channels, each of which can be assigned a home automation function that is independent from the other channels.







Technical details

•	Module:	3 modules System 44 (67.5 w x 45 h x 36.2 d) mm.
•	Protection degree:	IP40 installed in the respective flush-mounted box.
•	Reference Temp. and Rel. Humidity:	25°C RH 65%
•	Temperature range Operating environment:	from -10°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.
•	Auxiliary power supply:	- Rated voltage 12Vac/dc
		- Admissible variation 10.5V - 14V
		- Absorption at 12Vdc: 17.5 mA MAX
•	Absorption from the AVEbus line:	- With AUX line: 0.3 C
		- Only AVEbus line: 33 C

Connections

GUII	CONNECTIONS				
•	Terminal 1:	positive BUS			
•	Terminal 2:	GND			
•	Terminal 3:	positive auxiliary power			
•	Terminal 4:	negative auxiliary power			

Description of the front

The front area is divided into 6 sensitive zones. During the programming phase the user can choose which to use, from 2 control to 6 controls. Each area has a two colour optical signal that makes the device visible in the dark and it can be configured to show the status of the associated receiver:

Blue LED

ON, makes the device visible in the dark (with the functions START, STOP, START+STOP, STEP and DIMMER) when the relay contact of the associated receiver is open or when the status signal of the associated receiver has not been configured.

Note: The configuration parameter can be used to set the level of brightness.

- Amber LED
 - Fast flashing, device being programmed
 - ON, relay contact of the associated closed receiver (with lighting function) or shutter open (with shutter function)
- amber / blue LED
 - Alternating, shutter and door/window fitting movement in progress

	Function 1:	START	Function 10:	START	(with signal of the status of the associated receiver)	
- \ \\	Function 2:	STOP	Function 11:	STOP	(with signal of the status of the associated receiver)	
-_\Z	Function 3:	STEP	Function 12:	STEP	(with signal of the status of the associated receiver)	
	Function 4:	START + STOP	Function 13:	START + STOP	(with signal of the status of the associated receiver)	
	Function 5:	DIMMER	Function 14:	DIMMER	(with signal of the status of the associated receiver)	
	Function 6:	SHUTTER	Function 15:	SHUTTER	(with signal of the status of the associated receiver)	
	Function 7:	DOORS / WINDOWS	Function 16:	DOORS / WINDOWS	(with signal of the status of the associated receiver)	
	Function 8:	SUNSHADE	Function 17:	SUNSHADE	(with signal of the status of the associated receiver)	
%	Function 9:	VENTILATION	Function 18:	VENTILATION	(with signal of the status of the associated receiver)	







441ABT6S

442ABT6S



□ 441ABT6S

■ 445ABT6S

449ABT6S

AVEbus control device with 6 "touch" Channels - Domus series - Tekla - 3 modules The device can be requested with customised front panel. Compatible with the plates: Vera 44, Technopolymer 44, Zama 44, Personal 44 and Young 44

■ 442ABT6S

443ABT6S

AVEbus control device with 6 "touch" Channels - Life series - Allumia - 3 modules The device can be requested with customised front panel. Compatible with the plates: Vera 44, Technopolymer 44, Zama 44, Personal 44 and Young 44





FRONT PANEL CONTROLS SET UP



LIGHTING

It sends the switch on/off signal, depending on the previous status of the actuator.



SCENARIOS

Sends the home automation system the order to execute the relevant scenario.



DIMMER

It sends the switch on/off signal, depending on the previous status of the actuator. Holding the button pressed down will allow the device to regulate brightness.



AUTOMATION

It sends the open or close signal, depending on the previous status of the actuator. Holding the button pressed down will allow the device to send the movement signal "person present".







EXAMPLE OF CUSTOMISATION MADE TO ORDER













COMPATIBLE WITH SYSTEM 44 PLATES





44PL3...











44PA3...

44P03...



DOMINA^{pro} control devices

TOGGLE CONTROL DEVICE INSTALLATION DIAGRAM

Applications with a 444ABT2...







44P...N01...
"New Style" front plate for rectangular box



444ABT2... + 44P...N01...

Applications with two 444ABT2...



444ABT2...
Toggle control device



44P...N02...
"New Style" front plate for rectangular box



444ABT2... + 44P...N02...

Applications with three 444ABT2...



444ABT2... Toggle control device



44P...N03...
"New Style" front plate for rectangular box



444ABT2... + 44P...N03...





Номе Аυтоматіон

HOTEL MANAGEMENT







444ABT2B 444ABT2CR

444ABT20T

FRONT COVER INCLUDED FOR INSTALLATION WITH STANDARD FRONT PLATE

444ABT2B

Toggle control device with 2 channels - toggle white colour

- supplied with no. 1 plastic white ring - 1 module

444ABT2CR

Toggle control device with 2 channels - toggle chrome colour

- supplied with no. 1 plastic chrome ring - 1 module

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

To be completed with NEW STYLE 44 front plates for round and square box



44P...NT21...



44P...N03...



To be used with





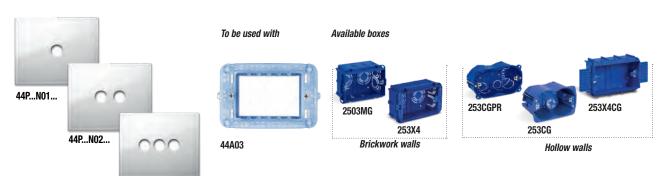






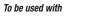
Hollow walls

To be completed with NEW STYLE 44 front plates for 3 modules box (fixing centre 83,5 mm)



To be completed with NEW STYLE 44 front plates for 4 modules box (fixing centre 108,5 mm)

Available boxes









44A04 44P...N04...

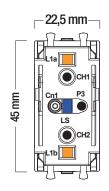
Brickwork walls

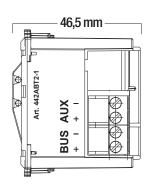


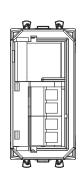
DOMINApro control devices

2-CHANNEL CONTROL DEVICE - cod. 442ABT2-1

The 442ABT2-1 device is a 2-channel control bus that is capable of controlling all receivers of the AVEbus family. It can be set as a control device with 1 to 2 AVEbus channels, each of which can be assigned a home automation function that is independent from the other channels. It must be completed with an appropriate key (central or asymmetrical core).







Technical details

•	Module:	1 System 44 module (22.5 w x 45 h x 46.5 d) mm to be completed with
		keys cod. 44ELA01 or 44ELA02.
•	Protection degree:	IP41 if completed with keys and installed in the corresponding flush-mounted box.
•	Reference Temp. and Rel. Humidity:	25°C RH 65%
•	Temperature range Operating environment:	from -10°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.
•	Auxiliary power supply:	- Rated voltage: 12Vac/dc
		- Allowed fluctuation: 10.5V - 14V
		- Absorption at 12Vdc: 21 mA MAX
•	Absorption from the AVEbus line:	- With AUX line: 0.3 C
		- Only AVEbus line: 7.2 C

Connections

00		
•	Terminal 1:	positive BUS
•	Terminal 2:	GND
•	Terminal 3:	positive auxiliary power
•	Terminal 4:	negative auxiliary power

Description of the front

Several optical signals are visible on the front to enable the user to locate the device in the dark and, if properly set, they show the status of the associated receiver.

- Blue LED (working only when the auxiliary power is on)
 - ON allows orientation in the dark.
- Amber LED
 - Fast flashing, device being programmed
 - ON, relay contact of the associated closed receiver (with lighting function)
 - ON slow flashing, moving shutter or window/door fitting (with related function)

	Function 1:	START	Function 10:	START	(with signal of the status of the associated receiver)
ンソ	Function 2:	STOP	Function 11:	STOP	(with signal of the status of the associated receiver)
- 'ኢረ-	Function 3:	STEP	Function 12:	STEP	(with signal of the status of the associated receiver)
	Function 4:	START + STOP	Function 13:	START + STOP	(with signal of the status of the associated receiver)
	Function 5:	DIMMER	Function 14:	DIMMER	(with signal of the status of the associated receiver)
	Function 6:	SHUTTER	Function 15:	SHUTTER	(with signal of the status of the associated receiver)
	Function 7:	DOORS / WINDOWS	Function 16:	DOORS / WINDOWS	(with signal of the status of the associated receiver)
	Function 8:	SUNSHADE	Function 17:	SUNSHADE	(with signal of the status of the associated receiver)
%	Function 9:	VENTILATION	Function 18:	VENTILATION	(with signal of the status of the associated receiver)





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Номе Аυтоматіом

THE MANAGEMEN

VIDEO INTERCO

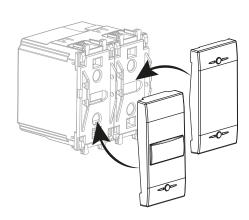
6 6

442ABT2-1

442ABT2-1

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

To be completed with key covers. Next page:





Example of key cover (44..ELA01, 44...ELA01-C, 44..ELA02 or 44..ELA02-C)



FRONT PANEL CONTROLS SET UP



LIGHTING

It sends the switch on/off signal, depending on the previous status of the actuator.



AUTOMATION

It sends the open or close signal, depending on the previous status of the actuator. Holding the button pressed down will allow the device to send the movement signal "person present".



2 tilting controls



SCENARIOS

Sends the home automation system the order to execute the relevant scenario.



DIMMER

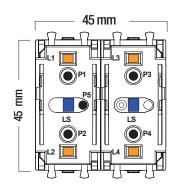
It sends the switch on/off signal, depending on the previous status of the actuator. Holding the button pressed down will allow the device to regulate brightness.

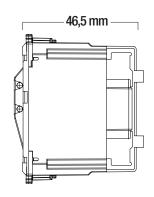


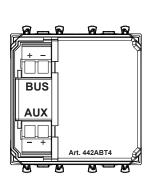
TECHNICAL CATALOGUE **DOMINA**pro control devices

1-4 CHANNEL CONTROL DEVICE - cod. 442ABT4

The device 442ABT4 is a control device with 4 independent channels that is capable of controlling all receivers of the AVEbus family. It can be set as a control device with 1 to 4 AVEbus channels, each of which can be assigned a home automation function that is independent from the others. It must be completed with the appropriate keys (central or asymmetrical core).







Technical details

	iiiioai aotaiio	
•	Module:	2 modules System 44 (45 w x 45 h x 46.5 d) mm
•	Protection degree:	IP41 if completed with keys and installed in the corresponding flush-mounted box.
•	Reference temperature and relative humidity:	25°C RH 65%
•	Operating Ambient Temperature Range:	from -10°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.
•	Auxiliary power supply:	- Rated voltage: 12Vac/dc
		- Allowed fluctuation: 10.5V - 14V
		- Absorption at 12Vdc: 15.9 mA MAX
•	Absorption from the AVEbus line:	- With AUX line: 0.3 C
		- Only AVEbus line: 9.4 C

Connections

-		
•	Terminal 1:	positive BUS
•	Terminal 2:	GND
•	Terminal 3:	positive auxiliary power
•	Terminal 4:	negative auxiliary power

Description of the front

Several optical signals are visible on the front to enable the user to locate the device in the dark and, if properly set, they show the status of the associated receiver.

- Blue LED (working only when the auxiliary power is on)
 - ON allows orientation in the dark.
- Amber LED
 - Fast flashing, device being programmed
 - ON, relay contact of the associated closed receiver (with lighting function)
 - ON slow flashing, moving shutter or window/door fitting (with related function)

	Function 1:	START	Function 10:	START	(with signal of the status of the associated receiver)
ンゲ	Function 2:	STOP	Function 11:	STOP	(with signal of the status of the associated receiver)
-ኢረ-	Function 3:	STEP	Function 12:	STEP	(with signal of the status of the associated receiver)
	Function 4:	START + STOP	Function 13:	START + STOP	(with signal of the status of the associated receiver)
	Function 5:	DIMMER	Function 14:	DIMMER	(with signal of the status of the associated receiver)
	Function 6:	SHUTTER	Function 15:	SHUTTER	(with signal of the status of the associated receiver)
	Function 7:	DOORS / WINDOWS	Function 16:	DOORS / WINDOWS	(with signal of the status of the associated receiver)
	Function 8:	SUNSHADE	Function 17:	SUNSHADE	(with signal of the status of the associated receiver)
%	Function 9:	VENTILATION	Function 18:	VENTILATION	(with signal of the status of the associated receiver)





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Номе Аυтоматіом

MANAGEMEN

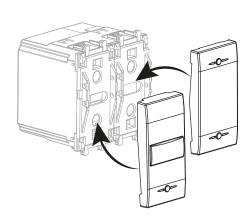
VIDEO INTERC

442ABT4

442ABT4

Control device with 1-4 channels - to be completed with key cover - 2 modules

To be completed with key covers. Next page:









Example of key cover (44..ELA01, 44...ELA01-C, 44..ELA02 or 44..ELA02-C)







FRONT PANEL CONTROLS SET UP



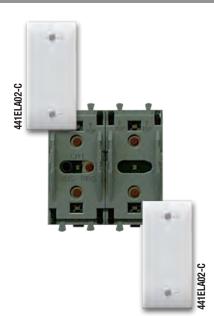
LIGHTING

It sends the switch on/off signal, depending on the previous status of the actuator.



AUTOMATION

It sends the open or close signal, depending on the previous status of the actuator. Holding the button pressed down will allow the device to send the movement signal "person present".



4 tiling controls



SCENARIOS

Sends the home automation system the order to execute the relevant scenario.



DIMMER

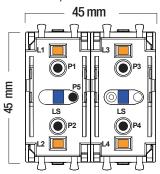
It sends the switch on/off signal, depending on the previous status of the actuator. Holding the button pressed down will allow the device to regulate brightness.

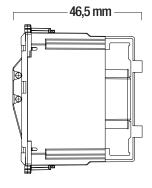


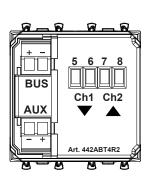
DOMINA^{pro} control devices

4-CHANNEL CONTROL DEVICE WITH 2 CHANNEL ACTUATOR - cod. 442ABT4R2

The 442ABT4R2 is a 4-independent channels command device with incorporated multi-function actuator able to control lights and roller shutters. The device consists of a front control part, and also of two actuation devices whose power contacts are placed on the back: lighting actuator and roller shutters actuator. The three devices (4-channel command, lighting actuator and roller shutters actuator) are independent from each other and freely configurable, except for the constraint related to the choice of the type of actuator which is exclusive (by selecting the lighting actuator mode the device excludes the roller shutter actuator and vice versa). It must be completed with the appropriate keys (central or asymmetrical core).







Technical details

166	iiiicai uctaiis	
•	Module:	2 modules System 44 (45 w x 45 h x 46.5 d) mm
•	Protection degree:	IP41 if completed with keys and installed in the corresponding flush-mounted box.
•	Reference temperature and relative humidity:	25°C RH 65%
•	Operating Ambient Temperature Range:	from -10°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.
•	Auxiliary power supply:	- Rated voltage: 12Vac/dc
		- Allowed fluctuation: 10.5V - 14V
		- Absorption at 12Vdc: 41.0 mA MAX
•	Absorption from the AVEbus line:	- With AUX line: 0.3 C
		- Only AVEbus line: 16.0 C

Connections

UUI	ilicotions	
•	Terminal 1:	Positive BUS
•	Terminal 2:	GND
•	Terminal 3:	Positive auxiliary power
•	Terminal 4:	Negative auxiliary power
•	Terminal 5 and 6:	Output Ch1 LIGHTING or CLOSE SHUTTER
•	Terminal 7 and 8:	Output Ch2 LIGHTING or OPEN SHUTTER

Description of the front

Several optical signals are visible on the front. During normal function they enable the user to locate the device in the dark and, if properly set, they show the status of the actuator associated with each channel of the control device.

- Blue LED (working only when the auxiliary power is on)
 - ON allows orientation in the dark.

Note: The configuration parameter can be used to set the level of brightness.

- Amber LED
 - Fast flashing, device being programmed
 - ON, relay contact of the associated closed receiver (with lighting function)
 - ON slow flashing, moving shutter or window/door fitting (with related function)

Functions Table (Control Device) - For actuation functions, see the actuator section.

i unotiono i	abio (contioi bo	rico, i oi actaation	ianonono, oco u	io actuator coctionii	
	Function 1:	START	Function 10:	START	(with signal of the status of the associated receiver)
- \ \\\-	Function 2:	STOP	Function 11:	STOP	(with signal of the status of the associated receiver)
<u>'</u> ኢረ־	Function 3:	STEP	Function 12:	STEP	(with signal of the status of the associated receiver)
	Function 4:	START + STOP	Function 13:	START + STOP	(with signal of the status of the associated receiver)
	Function 5:	DIMMER	Function 14:	DIMMER	(with signal of the status of the associated receiver)
	Function 6:	SHUTTER	Function 15:	SHUTTER	(with signal of the status of the associated receiver)
	Function 7:	DOORS / WINDOWS	Function 16:	DOORS / WINDOWS	(with signal of the status of the associated receiver)
	Function 8:	SUNSHADE	Function 17:	SUNSHADE	(with signal of the status of the associated receiver)
8	Function 9:	VENTILATION	Function 18:	VENTILATION	(with signal of the status of the associated receiver)



6

Номе Аптоматіон

6 6

442ΔRT4R2

442ABT4R2

4-channel control device with built-in 2 channel multifunction actuator - 10A resistives - 4A incandescent lamps 4A COS ϕ 0.6 - 2 modules

/ War

If LED lamps are used, the user must check that the inrush current stated by the manufacturer is below 80A ("inrush current").

FRONT PANEL CONTROLS SET UP



LIGHTING

It sends the switch on/off signal, depending on the previous status of the actuator.



AUTOMATION

It sends the open or close signal, depending on the previous status of the actuator. Holding the button pressed down will allow the device to send the movement signal "person present".



4 tiling controls



Sends the home automation system the order to execute the relevant scenario.



DIMMER

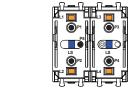
It sends the switch on/off signal, depending on the previous status of the actuator. Holding the button pressed down will allow the device to regulate brightness.

On the back there are four terminals of the two channels of the actuator that is built into this device. Their function methods, which can be selected during set-up, can be: LIGHTING mode (two channels for lighting actuation) or SHUTTER mode (one channel comprising both relays for the actuation of a shutter).









Control device mode



Shutter actuator mode



Function Table (Lighting actuator device)

		Parameter $1 = 0,1,2$ (delay))	Parameter 1=3 (flashing)
	Function 1:	Instantaneous	0.4 s
	Function 2:	1 s	0.6 s
	Function 3:	3 s	0.8 s
>\<	Function 4:	5 s	1 s
\\\\\		***	
	Function 13:	5 min	16 s
	Function 14:	6 min	20 s
	Function 15:	7 min	24 s
	Function 16:	8 min	30 s

Function Table (Shutter actuator device)

	Function 1:	5 s	Function 9:	1 min 20 s				
	Function 2:	10 s	Function 10:	1 min 30 s				
	Function 3:	20 s	Function 11:	1 min 40 s				
	Function 4:	30 s	Function 12:	1 min 50 s				
	Function 5:	40 s	Function 13:	2 min				
	Function 6:	50 s	Function 14:	2 min 10 s				
	Function 7:	1 min						
	Function 8:	1 min 10 s	Function 31:	5 min				



DOMINA^{pro} control devices

ONE/TWO FUNCTIONS "KEY" - cod. 44..ELA..

Key assembly

Once programming of the control device has ended, the appropriate key covers must be installed on the front for aesthetic purposes and to allow the user to use them.

There are four types of keys for each of the aesthetic finishes of S.44 (Domus, Tekla, Life and Allumia):

Single-function keys

- Smooth key with single function; it allows to use only the bottom control and indicates the status of the associated load with the amber colour LED that is present in the control bus below;
- back lit key with single function; it allows to use only the bottom control and indicates the status of the associated load with the amber colour LED that is present in the control bus below. Moreover, the central transparent gem allows the user to locate it in the dark by showing the blue colour back light, and also offering customisation by affixing the labels provided between the key and the transparent gem.



Dual-function keys

- Smooth key with two functions; it allows to use both top and bottom controls, and indicates the status of the associated load/s with the amber colour LED that is present in the control bus below;
- back lit key with two functions; it allows to use both the top and bottom controls and indicates the status of the associated load/s with the amber colour LED that is present in the control bus below. Moreover, the central transparent gem allows the user to locate it in the dark by showing the blue colour back light, and also offering customisation by affixing the labels provided between the key and the transparent gem.







HOTEL MANAGEMENT

441ELA01-C 445ELA01-C 449ELA01-C



442ELA01-C 443ELA01-C



449ELA02-C

441ELA02-C 445ELA02-C

442ELA02-C 443ELA02-C

☐ 441ELA01-C ■ 445ELA01-C **449ELA01-C**

Smooth key with single function for transmitters - Domus, Tekla and Class series - 1 module

■ 442ELA01-C ■ 443ELA01-C

Smooth key with single function for transmitters - Life series - Allumia - 1 module

□ 441ELA02-C 449ELA02-C ■ 445ELA02-C

Smooth key with two functions for transmitters - Domus, Tekla and Class series - 1 module

■ 442ELA02-C ■ 443ELA02-C

Smooth key with two functions for transmitters - Life series - Allumia - 1 module

Lightable "key" with one/two functions



□ 441ELA01 **■ 445ELA01 449ELA01**

Key with single function for transmitters - Domus, Tekla and Class series - 1 module

■ 442ELA01 ■ 443ELA01

Key with single function for transmitters - Life series - Allumia - 1 module

□ 441ELA02 ■ 445ELA02 **449ELA02**

Key with two functions for transmitters - Domus, Tekla and Class series - 1 module

■ 442ELA02 **■ 443ELA02**

Key with two functions for transmitters - Life series - Allumia - 1 module

APPLICATION SEQUENCE OF IDENTIFICATION LABELS



Remove the central transparent plate



Insert the front of the symbol label supplied with the key



Insert the transparent plate frontally



441ELA02



445ELA02

449ELA02

443ELA02 442FI AN2



DOMINA^{pro} control devices

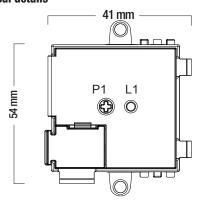
HIDDEN 2-CHANNEL CONTACT INTERFACE - cod. ABIN02

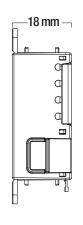
The ABINO2 device is a volt free contact interface that is capable of sending the order associated with the two channels controlled by the external contacts to two independent channels of the AVEbus system.

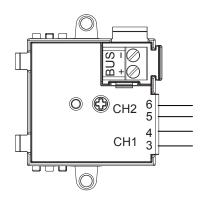
The device is contained in a compact versatile module that is suitable for installation anywhere. For example, it can be placed in a junction box or in a false ceiling. The two tabs make it possible to anchor it using screws but if necessary they can be broken off to reduce the overall bulk.

Due to its dimensions, it can be inserted in a blank insert of the wiring accessories (S44).

Technical details







•	Module:	(54 w x 41 h x 18 d) mm
•	Protection degree:	IP20D
•	Reference Temp. and Rel. Humidity:	25°C RH 65%
•	Temperature range Operating environment:	from -10°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.
•	Absorption from the AVEbus line:	- With AUX line: n.d.
		- Only AVEbus line: 2.7 C
Con	nections	
•	Terminal 1:	positive BUS
•	Terminal 2:	GND
•	Terminal 3:	Input Ch1 (grey colour)
•	Terminal 4:	GND (black colour)
•	Terminal 5:	Input Ch2 (blue colour)
•	Terminal 6:	GND (black colour)

Description of the front

On the front there is an optical indicator for device function and programming status:

- Amber LED (L1): indicates the status of the device
 - Fast flashing, device being programmed
 - OFF, normal function

	Function 1:	START
- <u>\</u>	Function 2:	STOP
-\Z-	Function 3:	STEP
	Function 4:	START + STOP
	Function 5:	DIMMER
	Function 6:	SHUTTER
	Function 7:	DOORS / WINDOWS
	Function 8:	SUNSHADE
%	Function 9:	VENTILATION

		With function from 1 to 4	With function from 5 to 9
	0	On / Off lighting control	Open/close control for window and door fittings and increase/ reduce lighting
	1	On / Off lighting control	Only ON order (open)
Parameter 1	ameter 1 2	On / Off lighting control	Only OFF order (down, close)
	3	Only light ON order	Only increase light order
	4	Only light Off order	Only reduce lighting order





7

Home Automation

HOTEL MANAGEMENT

NTI INTRUSION

STOCK DÉMINA AMELIA PRO NE

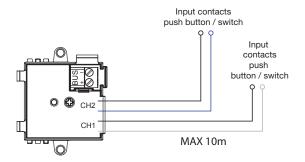
ABIN02

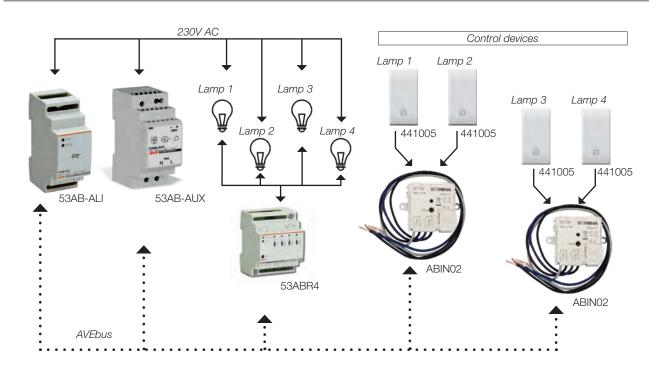
2-channel hidden contact interface - dimensions (WxHxD) 54x41x18 mm

ABIN02

TECHNICAL INFORMATION









DOMINApro control devices

HIDDEN CONTACT INTERFACE 6 CH. - Cod. ABIN06

LED C (CH5 + CH6)

GND

ABIN06 is an interface for 6 potential-free contact inputs and 3 LED outputs. The connection cables with plugs, approx. 15 cm long, makes it possible to connect conventional push-buttons, potential-free contacts (for inputs) or LEDs (for outputs). The polling voltage for the contacts and power supply voltage for the LEDs are available on the device. The interface is set in a flush-mounted box behind the push-button, or connected to the DIN rail of a junction box or electrical panel, or to any suitable support, using the two side tabs with holes for the screws. Connection to the AVE bus is made via the removable connection terminal block. Each of the 6 inputs can be freely configured (see function table) while the 3 LED outputs are functionally linked to one of the three input groups: LED A to channels CH1-CH2, LED B to channels CH3-CH4 and LED C to channels CH5-CH6.

Technical features

Technical features	
Dimensions:	(52 x 44 h x 18 p) mm
	(39 I mm, removing elements A and D)
Protection rating:	IP30
Operating temperature:	-10 ÷ +50 °C (for indoor use)
Power supply:	BUS
 Absorption from AVEbus 	s line: Without auxiliary power supply: 3.3 C
	With auxiliary power supply: 0.1 C
Auxiliary power supply:	
- Rated voltage:	12Vca/cc
 Admissible variation: 	10.5V ÷ 14V
- Absorption @ 12Vdc:	25 mA MAX (three active LED outputs)
- Absorption @ 12Vac:	32 mA MAX (three active LED outputs)
Configuration:	from AVE Cloud App - EasyConfig
• Front LED:	amber for signalling configuration status (flashing)
Terminal blocks:	
BUS + and —:	Removable AVEbus terminal block
- AUX + and -:	Removable auxiliary power terminal block
 Multiple-wire connect 	tor: See table
TABLE MULTIPLE-WIRE CONI	NECTOR
Brown wire: Cl	h. 1 • Pink wire: Ch. 2 • Red wire: Ch. 3
White wire: Cl	h. 4 • Orange wire:Ch. 5 • Grey wire:Ch. 6
Black wire: GI	ND
Green wire: LE	ED A (CH1 + CH2)
Yellow wire: LE	ED B (CH3 + CH4)

CONNECTIONS

Blue wire:Black wire:

Connection to the bus is made directly from the bus terminal blocks on the front of the device. The inputs and outputs are connected using conductor wires, approx. 15 cm long, following the connection wiring diagram printed on the product. The conductors can be extended up to a maximum of 20 m using shielded, twisted cable.

WARNING: The conductors that are not used must be insulated so as to prevent incorrect wiring. This equipment contains only SELV circuits which must be kept separate from circuits with hazardous voltages.

Operation

The device has six inputs divided into three groups of two inputs each: CH1-CH2, CH3-CH4, CH5-CH6. Each of these groups can serve to interface two control inputs or one alarm input; in the latter case, the first channel of each group (1,3,5) is the alarm input while the second (2,4,6) is the input for local reset of its respective alarm. The black GND wire is common to all inputs. The device also has three outputs that can connect external LED signals. Each output is matched, respectively, to one of the three input groups: LED A with CH1 - CH2, LED B with CH3 - CH4 and LED C with CH5 - CH6.

Each input group can be configured as: command input (functions 1 to 9), status input (function 10) or alarm input (functions 11 to 15) followed by the reset input, if any. Configuring the group as:

- command inputs, the LED displays the status of the receiver associated with the first of the two channels (CH1, CH3, CH5); if the receiver is binary ON/OFF, the LED indicates whether the relay is energised or not; if the receiver is a dimmer, the LED only indicates whether the light is on (at any intensity) or off. Finally, if the receiver is of the 'shutter' type, the LED indicates whether the shutter is open, closed or moving;
- status input, the LED output is disabled;
- alarm input, by flashing, the LED shows the alarm status of the first input in the group. If the alarm memory function is used, the status of the LED remains until it is reset locally.





7:

MOLETOMOTION

HOTEL MANAGEMENT

VIDEO INT

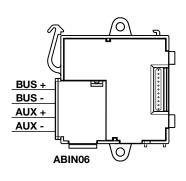


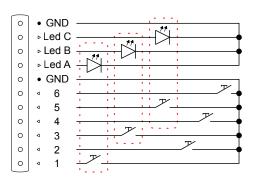
ABIN06

ABIN06

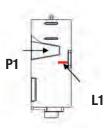
Multifunction contacts interface with 6 channels + 3 Led outputs - AVEbus flush mounting at the back of the device - dimensions (LxHxD) 52x44x18 mm

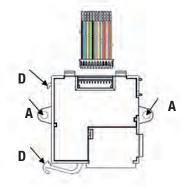
TECHNICAL INFORMATION

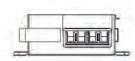












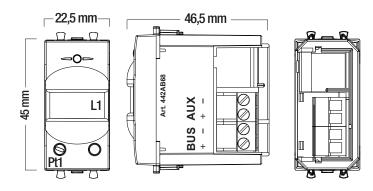
- P1 Configuration button
- L1 Configuration LED
- A Side fixing flaps with screws
- D Hooks for DIN bar
- M BUS removable terminal block



DOMINA^{pro} control devices

PASSIVE INFRA-RED DETECTOR 1 CHANNEL "LUCE AMICA" - cod. 44..AB68

The 44..AB68 device is a passive infra-red revealer detector, which includes a digital pyroelectric sensor and Fresnel lens. It is combined with a twilight sensor that can be adjusted by turning the potentiometer placed on the front.



Technical details

IUU	IIIIICAI UELAIIS	
•	Module:	1 System 44 module (22.5 w x 45 h x 46.5 d) mm
•	Protection degree:	IP41 installed in the respective flush-mounted box.
•	Reference Temp. and Rel. Humidity:	25°C RH 65%
•	Temperature range Operating environment:	from -10°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.
•	Auxiliary power supply	- Rated voltage: 12Vac/dc
		- Allowed fluctuation: 10.5V - 14V
		- Absorption at 12Vdc: 2.5 mA MAX
•	Absorption from the AVEbus line:	- With AUX line: 0.4 C
		- Only AVEbus line: 4.8 C
Cor	nnections	
•	Terminal 1:	positive BUS
•	Terminal 2:	GND
•	Terminal 3:	positive auxiliary power
•	Terminal 4:	negative auxiliary power
Vol	umetric coverage	
•	Scanned angle:	150° horiz. – 50° vert.
•	No. of sectors:	12 on 2 layer (6+6 scanned sectors)
•	Max range:	12 metres adjustable

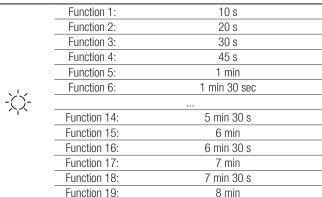
Description of the front

On the front there is an optical indicator for device function and programming status:

- Amber LED (L1): indicates the status of the device
 - Fast flashing, device being programmed
 - Slow flashing, coverage test mode
 - OFF, normal function

The device enables the user to adjust the twilight sensor through potentiometer Pt1 located on the front of the device. (End of rotation clockwise, twilight sensor disabled with motion detection always active). The maximum adjustment is 100 lx and the minimum is 1 lx.

Function Table



Time elapsing between sending the actuator activation control and the actuator disconnection control with parameter 2 set at 1 or 3 $\,$





Номе Аυтоматіом

HOTEL MANAGEMENT

ANTI INTRUSION

□ 441AB68 **■ 445AB68 449AB68**

Passive infra-red detector LUCE AMICA - Domus series - Tekla - Class -1 module

■ 442AB68 ■ 443AB68

Passive infra-red detector LUCE AMICA - Life series - Allumia - 1 module









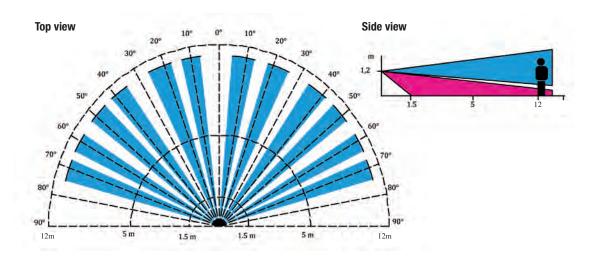


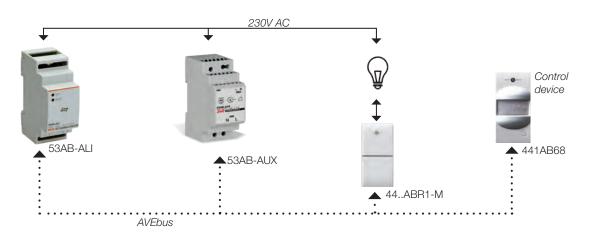


442AB68

443AB68

VOLUMETRIC COVERAGE AND FUNCTIONAL DIAGRAM



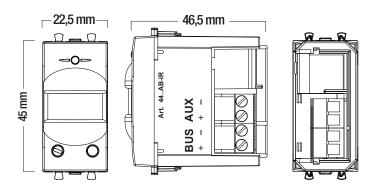




DOMINApro control devices

AveBus RECEIVER FOR IR REMOTE CONTROL - COD. 44..AB-IR

Cod. 44..AB-IR is an interface between the DOMINA^{pro} home automation system and the infra-red remote control cod. IR-REMOTE (or other remote controls with "Philips RC-5" infra-red protocol). The device allows to see most of the automation functions by pressing a button on the appropriately set up infra-red remote control. Functions are stored in the device using the relative programming software SFW-IR.



The device allows:

- Switching on/off the lights,
- · Adjusting light intensity of the dimmer,
- Total opening and closing of motorised window and door fittings,
- opening and closing of motorised window and door fittings in "Person Present" mode,
- Switching on/off and BOOST mode of the CMV system appropriately interfaced with cod. 441ABRV1.
- Moreover, the device allows to see the execution of scenarios present in the DOMINA^{pro} supervision device.

Technical details

•	Module:	1 module S.44 (WxHxD) 22.5 x 45 x 46.5 mm
•	Protection degree:	IP40 installed in the respective wall-mounted or built-in box
•	Reference Temp. and Rel. Humidity:	25°C RH 65%
•	Temperature range Operating environment:	from -10°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.
•	Auxiliary power supply	- Rated voltage: 12Vdc
		- Allowed fluctuation: 10.5V - 14V
		- Absorption at 12Vdc: 4.8 mA
•	Absorption from the AVEbus line:	- With AUX line: 0.4 C
		- Only AVEbus line: 4.5 C
Cor	nnections	·
•	Terminal 1: Positive BUS	Terminal 3: Positive SELV auxiliary power supply
•	Terminal 2: GND (BUS)	Terminal 4: GND (AUX)
	•	· ,

Technical characteristics compatible IR controls

•	Remote control address:	from "0" to "32" (configurable with software SFW-IR)
•	Power supply frequency:	36.0 kHz - 38.0 kHz - 40.0 kHz (remote control AVE 36.0kHz)
•	Toggle Function:	managed (configurable with software SFW-IR).

Description of the front

On the front there are a yellow optical indicator that shows the following conditions pushbutton.

Yellow LED:
ON, AVEbus communication error.
OFF, stand-by mode.
Single flash, IR control with correctly received (Philips RC-5 protocol).
Fast flashing, device being programmed.

FUIICUOII IADIE	
LIGHTING	(ON - OFF - CHANGE STATUS)
DIMMER	(ON - OFF - CHANGE STATUS - INCREASE - REDUCE — SET LEVEL)
SHUTTERS	(RAISE - LOWER)
CUSTOM	(AVEbus Frame)









441AB-IR

445AB-IR

449AB-IR



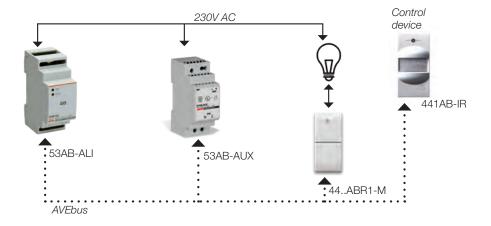


442AB-IR 443AB-IR

449AB-IR □ 441AB-IR ■ 445AB-IR

Interface for infra-red remote controls - Domus series - Tekla - Class - 1 module (usable with dedicated remote control cod. IR-REMOTE or in alternative with RC-5 protocol)

■ 443AB-IR Interface for infra-red remote controls - Domus series - Allumia - 1 module (usable with dedicated remote control cod. IR-REMOTE or in alternative with RC-5 protocol)



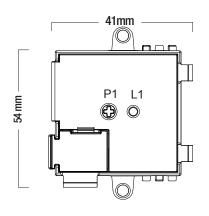


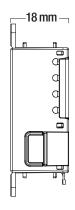
TECHNICAL CATALOGUE DOMINAPIO ACTUATOR DEVICES

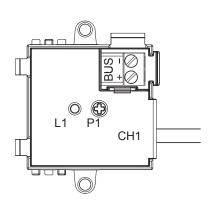
HIDDEN 1-CHANNEL LIGHTING ACTUATOR - cod. ABR01

TIDDEN 1-GRANNEL LIGHTING ACTUATOR - COO. ABRU

The ABR01 device is a single channel actuator bus, which can control electric loads by means of a volt free contact. The device is contained in a compact versatile module that is suitable for installation anywhere. For example, it can be placed in a junction box or in a false ceiling. The two tabs make it possible to anchor it using screws but if necessary they can be broken off to reduce the overall bulk. Due to its dimensions, it can be inserted in a blank insert of the wiring accessories (S44).







Technical details

icullical actalis			
Module:	(54 w x 41 h x 18 d) mm		
Protection degree:	IP20D		
Reference Temp. and Rel. Humidity:	25°C RH 65%		
Temperature range Operating environment:	from -10°C to +50°C		
Maximum Relative Humidity:	90% at 35°C		
Max. Height:	2000 m a.s.l.		
Absorption from the AVEbus line:	- With AUX line: n.d.		
	- Only AVEbus line: 4.6 C		
racteristics of controllable electric load			
Ohmic load (cosφ1):	2A at 230Vac		
Incandescent load:	2A at 230Vac		
	Module: Protection degree: Reference Temp. and Rel. Humidity: Temperature range Operating environment: Maximum Relative Humidity: Max. Height: Absorption from the AVEbus line: racteristics of controllable electric load Ohmic load (cosφ1):		

Inductive load ($\cos \varphi$ 0.6):

Fluorescent load:

Cor	Connections			
•	Terminal 1:	positive BUS		
•	Terminal 2:	GND		
•	Ch1:	output contact (white colour)		

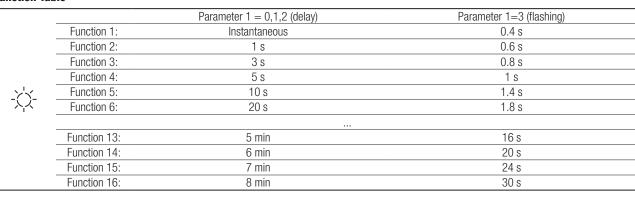
2A at 230Vac

Not suitable

Description of the front

On the front there is an optical indicator for device function and programming status:

- Amber LED (L1): indicates the status of the device
 - Slow flashing, indicates that the relay is about to change status (actuation delay)
 - Fast flashing, device being programmed
 - OFF, normal function







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Номе Аυтоматіом

HOTEL MANAGEMENT

ANTI INTRUSION

ABR01

ABR01

1-channel hidden actuator - 2A resistive, incandescent and inductive lamps $\text{COS}\phi$ 0,6 - dimensions (WxHxD) 54x41x18 mm

/ Warning:

If LED lamps are used, the user must check that the inrush current stated by the manufacturer is below 20A.

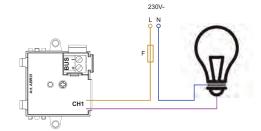
TECHNICAL INFORMATION

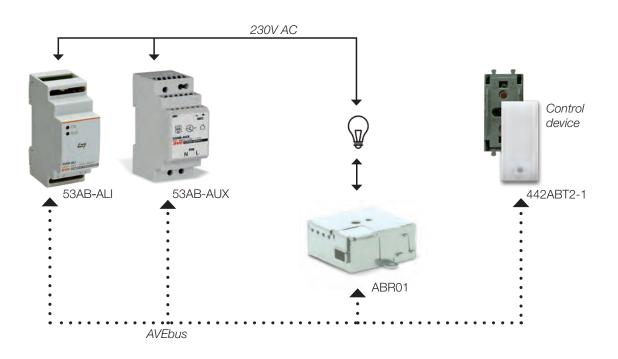
Characteristics of controllable electric load



- Ohmic load ($\cos \varphi$ 1):
- Incandescent load:
- Inductive load ($\cos \varphi$ 0.6):
- Fluorescent load:

2A at 230Vac 2A at 230Vac 2A at 230Vac Not suitable



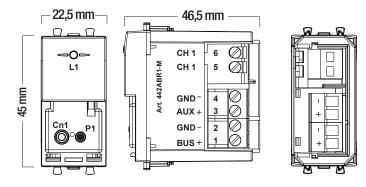




TECHNICAL CATALOGUE **DOMINAPRO ACTUATOR DEVICES**

1-CHANNEL LIGHTING ACTUATOR - cod. 44..ABR1-M

The 44..ABR1-M device is a 1-channel actuator that is able to control electric loads by means of volt free contacts. It has a status memory that can restore the output, upon restoration of the mains power.

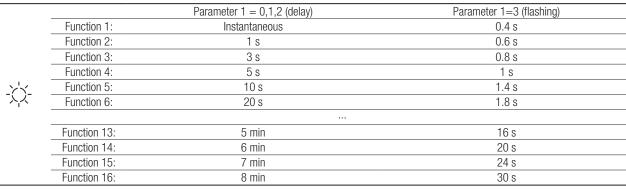


Tec	hni	ച	d	nta	н	c

Tec	hnical details	
•	Module:	1 System 44 module (22.5 w x 45 h x 46.5 d) mm
•	Protection degree:	IP41 if completed with front plate and installed in the corresponding
		flush-mounted box.
•	Reference Temp. and Rel. Humidity:	25°C RH 65%
•	Temperature range Operating environment:	from -10°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.
•	Auxiliary power supply	- Rated voltage: 12Vac/dc
		- Allowed fluctuation: 10.5V - 14V
		- Absorption at 12Vdc: 3.4 mA MAX
•	Absorption from the AVEbus line:	- With AUX line: 0.3 C
		- Only AVEbus line: 4.6 C
Cor	nnections	
•	Terminal 1:	positive BUS
•	Terminal 2:	GND
•	Terminal 3:	positive auxiliary power
•	Terminal 4:	negative auxiliary power
•	Terminal 5:	relay contact
•	Terminal 6: relay contact	
Cha	aracteristics of controllable electric load	
•	Ohmic load (cosφ1):	10A at 230Vac
•	Incandescent load:	4A at 230Vac
•	Inductive load (cosφ 0.6):	4A at 230Vac
•	Power factor correction in fluorescent load:	1A at 230Vac
Des	scription of the front	
	the front there is an entiral indicator for device fur	action and programming status:

On the front there is an optical indicator for device function and programming status:

- Amber LED, indicates the status of the device
 - Fast flashing, device being programmed
 - Slow flashing, the relay is about to change status (actuation delay)
 - ON, relay contact of the receiver closed
 - OFF, relay contact of the receiver open









HOTEL MANAGEMENT



□ 441ABR1-M ■ 445ABR1-M 449ABR1-M

1-channel actuator with memory status upon restoration of the mains power - 10A resistive or 4A incandescent lamps - 4A COS ϕ 0.6 - Domus series - Tekla - Class - 1 module

■ 442ABR1-M ■ 443ABR1-M

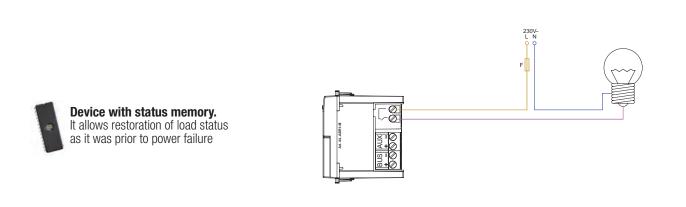
1-channel actuator with memory status upon restoration of the mains power - 10A resistive or 4A incandescent lamps - 4A $COS\phi0.6$ - Life series - Allumia - 1 module

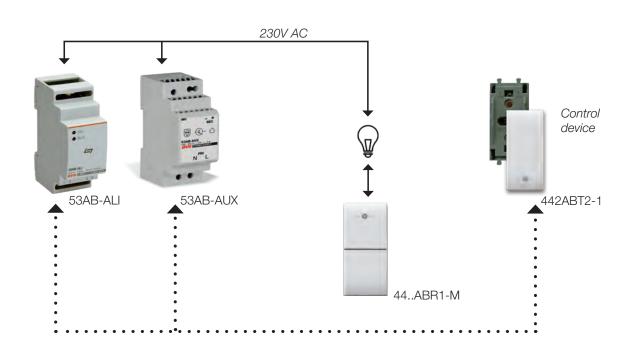
⚠ Warning:

If LED lamps are used, the user must check that the inrush current stated by the manufacturer is below 40A.



TECHNICAL INFORMATION



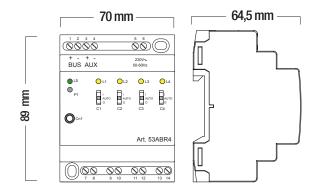




TECHNICAL CATALOGUE DOMINAPIO ACTUATOR DEVICES

4-CHANNEL LIGHTING ACTUATOR - cod. 53ABR4

The 53ABR4 device is an actuator provided with four ON/OFF outputs made with volt free relay contacts. It must be powered by an auxiliary power supply source or 230Vac power line. Outputs can also be manually forced by means of micro-switches placed on the front.



Technical details

Tech	ınical details				
•	Module:		4 DIN module	s (WxHxD) 70 x 89 x 6	66 mm
•	Protection degree:		IP 30D in DIN	boxes	
•	Reference Temp. and		25°C RH 65%		
•	Temperature range 0	perating environment:	from -10°C to	+50°C	
•	Maximum Relative Hu	umidity:	90% at 35°C		
•	Max. Height:		2000 m a.s.l.		
•	Mains power supply		- Rated voltag		
			- Allowed fluc	tuation: 190Vac - 253	BVac
				nt 230Vac: 25mA max	
•	Auxiliary power supp	ly (alternative)		je from SELV source:	
			- Allowed fluc	<u>tuation: 10.5Vdc - 14</u>	Vdc
			 Absorption a 		ax
•	Absorption from the A	AVEbus line:	- With AUX lin		
			- Only AVEbus	line: n.d.	
Cha	racteristics of contro	llable electric load			
•	Ohmic load ($\cos \varphi$ 1):		8A at 230Vac		
•	Incandescent load:		8A at 230Vac		
•	Inductive load (cosφ		5A at 230Vac		
•	Capacitative load 140)μF:	5A at 230Vac		
Con	nections				
•	Terminal 1:	Positive BUS	•	Terminal 7-8:	CH1 contact output
•	Terminal 2:	GND	•	Terminal 9 - 10:	CH2 contact output
•	Terminal 3:	Positive power supply aux SE	LV •	Terminal 11-12:	CH3 contact output
•	Terminal 4:	GND power supply aux SELV	•	Terminal 13-14:	CH4 contact output
•	Terminal 5 - 6:	230 V~ auxiliary power supply	У		

Description of the front

Four yellow optical signals are visible on the front, each one indicating the status of the output contact associated with each channel.

- Yellow LED (L1,L2,L3,L4): indicates the actual status of the relay output contact
 - ON, relay contact closed (of the associated channel) ON slow flashing, awaiting load actuation.
 - OFF, relay contact open (of the associated channel)
- Green LED (L5): indicates the status of the device
 - ON, auxiliary power supply present, Bus absent or circuit malfunction
 - Short flashing: auxiliary power supply and bus present (normal function)
 - Fast flashing, device in programming
 - OFF, power failure
- C1, C2, C3, C4, manual/automatic output control.



	Parameter $1 = With delay$	Parameter 1= With flashing
Function 1:	Instantaneous	0.4
Function 2: 1 s		0.6
Function 3:	3 s	0.8
Function 4:	5 s	1.0 s
Function 5:	10 s	1.4

Function 16:	8 min	30 s





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HOME AUTOMATION

HOTEL MANAGEMENT



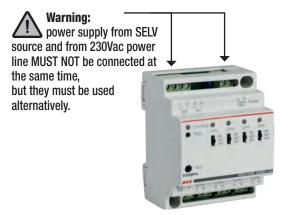
53ABR4

53ABR4

4-channel independent actuator - 8A resistive and incandescent lamps, 5A capacitative and inductive $cos\phi$ 0.6 - 4 DIN modules

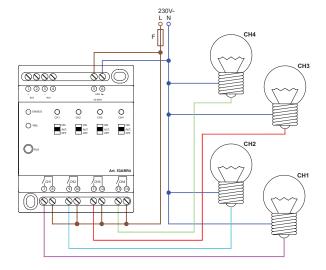
Warning:
If LED lamps are used, the user must check that the inrush current stated by the manufacturer is below 80A.

TECHNICAL INFORMATION

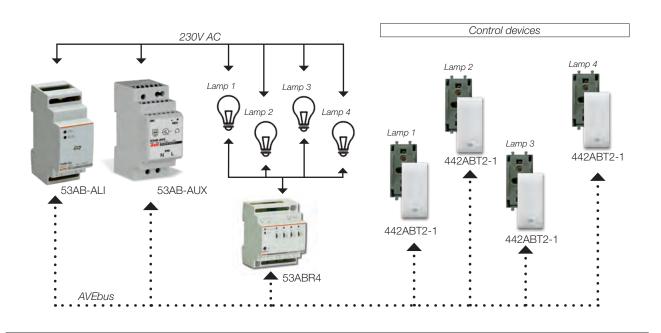




the micro-two-way switches placed on the front, if in the ON or OFF position, manually force the output, while in the AUTO position the output follows the controls received from the bus.



EXAMPLE OF USE





CATALOGO TECNICO

DISPOSITIVI DI ATTUAZIONE DOMINAPIO

8-CHANNEL LIGHTING ACTUATOR - Cod. 53ABR8

The 53ABR8 is an AVEbus multifunction actuator with 8 potential-free contact relays with a capacity of 10 A 250 VAC, divided into four sub-devices, each with two freely-programmable relays to manage two lights (or stairway lights) and/or a shutter, even with sunshade slat orientation. Outputs can be forced manually using the front control buttons fit with status LEDs; installation on DIN guide (60715 TH35) and occupying 6 x 17.5 mm modules.

Technical features			
• Dimensions: 6 DIN modules (107 l x 89.5 h x 64 d) mm			
Protection rating:	IP30D (in appropriate containers)		
Operating temperature:	-10 to +50 °C (for indoor use)		
Power supply:	BUS (requires AUX line)		
 Absorption AVEbus line: 	0.7 C		
 Auxiliary power supply: 			
- Rated voltage:	12 Vac/dc		
- Permitted variation:	10.5V – 14V		
- Absorption @ 12Vdc:	25 mA (stand-by), 350 mA MAX		
- Absorption @ 12Vac:	32 mA (stand-by), 450 mA MAX		
Configuration:	from AVE Cloud App - EasyConfig or SFW-BSA		
Front LED:	green: slow flashing during normal operation, fast flashing during		
	configuration; amber: steady on during relay switching, with short		
	pause to identify manual forcing, and slow flashing during configuration		
	of relevant channel.		
Terminal blocks:			
- BUS + and -:	Removable AVEbus terminal block		
- AUX + and -:	Removable power terminal block		
- xA, xB :	Relay terminal A or B of channels 1 to 4		

Controllable loads

- resistive loads (cosφ 1): 10 A 230 Vac;
- incandescent lamps: 10 A 230 Vac;
- fluorescent lamps: 0.5 A 230 Vac;
- energy-saving lamps: 100 W 230 Vac;
- LED lamp: 100 W 230 Vac;
- electronic transformers: 4 A 230 Vac;
- motors (cosφ 0.6): 4 A 230 Vac.

Installation procedures

- The 8 relay outputs are separated by a 250 VAC basic insulation and not by double insulation; therefore, do not, for example, connect a SELV circuit to an output adjacent to another one hooked up to the 230 VAC power supply.
- Upstream, all relay output supply circuits must be protected against overcurrents by a device or fuse with rated breaking capacity of 1500 A or by a type C circuit breaker, with rated current that does not exceed 16 A.

Note: The rated load and its protection are given assuming that all relays run at maximum load. The maximum capacity of each relay is 10 A; however, safe device connection requires a maximum of two non-contiguous relays be used for this capacity. This, in turn, requires that the remaining relays be downgraded to 8 A.

Manual operation

Pressing the button for a given relay causes that relay to switch manually and this is indicated as the pertinent LED goes on. In "Light" mode, it is equivalent to forcing the output into manual mode in which commands from the bus are ignored until automatic operation is restored by either pressing AUTO or rebooting the device. In shutter mode, forcing remains in effect for as long as the button is pressed.

Oneration

The device has eight inputs divided into three groups of two inputs each: CH1 A/B, CH2 A/B, CH3 A/B and CH4 A/B. Each of these groups can serve as actuator for Light or Stairway Light, Shutter or Shutter with sunshade slat orientation. In Light mode, the two relays are equivalent to two separate logic channels: Ch.xA and Ch.xB; instead, in shutter mode, the two relays belong to the same logic channel Ch.x A/B, where A is the up contact and B the down contact (with interlock).





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HOTEL MANAGEMENT

ANTI INTRUSION

VIDEO INTERCOM

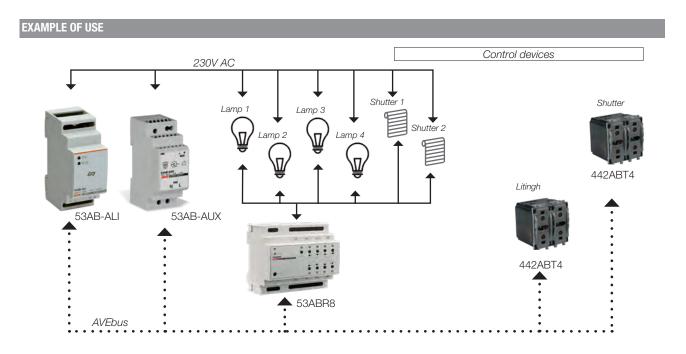
WIRING DIAGRAMS AND PRESCRIPTIONS

(A) [35] (A) 25]

53ABR8

53ABR8

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

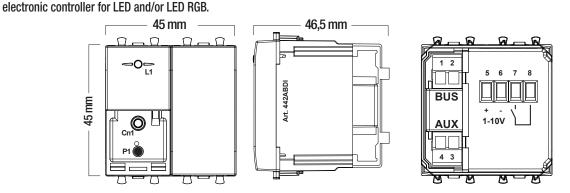




TECHNICAL CATALOGUE DOMINAPIO ACTUATOR DEVICES

1-CHANNEL DIMMER ACTUATOR 1-10V - cod. 44..ABDI

The 44..ABDI device is an actuator that acts as dimmer interface between the AVEbus line and an analogue output, which is able to control any type of light control device based on standard 1 - 10V (10% minimum brightness, 100% maximum brightness). The device is also equipped with a relay output for direct control of switching on/off operations. The device is able to control the dimmer AVE 53DIM010 rather than an



Technical details

	oninoai aotano	
•	Module:	2 modules System 44 (45 w x 45 h x 46.5 d) mm
•	Protection degree:	IP41 installed in the respective flush-mounted box.
•	Reference Temp. and Rel. Humidity:	25°C RH 65%
•	Temperature range Operating environment:	from -10°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.
•	Auxiliary power supply	- Rated voltage: 12Vac/dc
		- Allowed fluctuation: 10.5V - 14V
		- Absorption at 12Vdc: 5 mA MAX
•	Absorption from the AVEbus line:	- With AUX line: 0.3 C
		- Only AVEbus line: 5.4 C

Connections

-	111100110110				
•	Terminal 1:	Positive BUS	Terminal 5:	positive 1-10V analogue output	
•	Terminal 2:	GND	Terminal 6:	negative 1-10V analogue output	
•	Terminal 3:	positive auxiliary power supply	Terminal 7:	relay contact	
•	Terminal 4:	negative auxiliary power	Terminal 8:	relay contact	

Warning: The device cod. 44..ABDI does not generate a 1-10V voltage signal to be sent to the electronic control of the lamps, but adjusts the control signal generated by it. The analogue output type is CURRENT SINK.

Characteristics of controllable electric load

•	Ohmic load (cosφ1):	10A at 230Vac
•	Incandescent load:	10A at 230Vac
•	Inductive load ($\cos \varphi$ 0.6):	6A at 230Vac
•	Power factor correction in fluorescent load:	4A at 230Vac
•	Maximum number of controllable electronic reactors:	no. 100 cod. 53DIM010

Description of the front

On the front there is an optical indicator for device function and programming status:

- Amber LED, indicates the status of the device
 - Fast flashing, device being programmed
 - ON, relay contact of the receiver closed
 - OFF, relay contact of the receiver open

53DIM010

The 53DIM010 device is a controller for incandescent lamps, ferromagnetic transformers and electronic transformers. Command and control are managed by means of input with 1-10V analogue interface.

Technical details

• Module: 2 DIN modules (35 x 89 x 65) mm

• Supply voltage: 230V ~ 50Hz

Characteristics of controllable electric load

- Incandescent and halogen lamps (40-500 W 230V~50Hz)
- Ferromagnetic transformers for very low voltage halogen lamps (40-300 VA 230V~50Hz).

Connections

- Terminal 1: Dimmer output 230V~
- Terminal 4 : L Line
- Terminal 7: 1-10V adjustment negative input

- Terminal 2 3: N Line 230V~
- Terminal 5 6 : Jumper input
- Terminal 8: 1-10V adjustment positive input





HOTEL MANAGEMENT

441ABDI

53DIM010



Dimmer actuator with standard 1-10V and 10A resistive relay - Domus series - Tekla 2 modules

■ 442ABDI 443ABDI

Dimmer actuator with standard 1-10V and 10A resistive relay - Life series - Allumia 2 modules

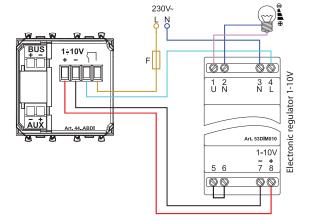
53DIM010

□ 441ABDI

Dimmer for 40-500W incandescent and halogen lamps, toroidal and ferromagnetic transformers from 40 to 300W 230Vac 50Hz - Adjustable with $10k\Omega$ potentiometer (not not provided) or with a 1-10Vdc signal from the actuator DOMINA 44..ABDI - 2 DIN modules

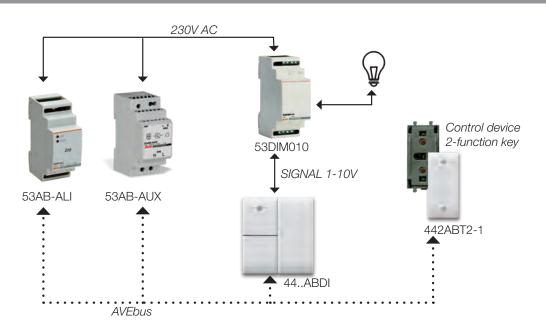
TECHNICAL INFORMATION

Warning: The device cod. 44..ABDI does not generate a 1-10V voltage signal to be sent to the electronic control of the lamps, but adjusts the control signal generated by it. The analogue output type is



EXAMPLE OF USE

CURRENT SINK.



Note:

Instead of the common lamp, the device is able to control LED strips by simply installing an electronic controller for LED and/or LED RGB, instead of item cod. 53DIM010. For information about the compatibility of these controllers, please contact AVE's sales network or Technical Assistance Service



TECHNICAL CATALOGUE DOMINAPIO ACTUATOR DEVICES

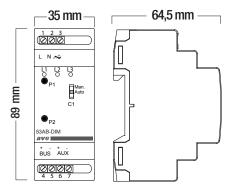
1-CHANNEL UNIVERSAL DIMMER ACTUATOR — Cod.53AB-DIM

The 53AB-DIM is an AVEbus dimmer actuator to control LED Lights, Incandescent Lamps, Compact Fluorescent Lamps (CFL), Electronic Transformers and Electronic Power Units for LED.

The device can function both in LE Leading Edge mode and in TE Trailing Edge mode. Appropriately configured, it acts as either MASTER or SLAVE to control multiple light lines at the same time (using max. no. 7 devices, cod. 53AB-DIM as SLAVE).

After connecting the dimmer to the BUS and to the load, light intensity can be controlled from any appropriately configured AVEbus control station. The load can be switched on or off by briefly pressing the local control button, while prolonged pressure on the button adjusts light intensity. The dimmer can adjust the load with 255 different light intensity levels. The switch on time and minimum adjustable power can be set to ensure total absence of any buzzing sound.

Built-in "Staircase Lighting" function with "Switch Off Alert" to ensure that lamps do not switch off instantly but gradually decrease light intensity. "Timer" and "Override" for staircase cleaning.



Technical details

•	Module:	2 DIN modules (35 w x 89 h x 64.5 d) mm
•	Protection degree:	IP40 in DIN boxes
•	Reference Temp. and Rel. Humidity:	25°C RH 65%
•	Temperature range Operating environment:	from -5°C to +35°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.
•	Auxiliary power supply:	- Rated voltage from SELV source: 12Vdc
		- Allowed fluctuation: 10.5Vdc ÷ 14Vdc
		- Absorption at 12Vdc: 4.8mA max
•	Absorption from the AVEbus line:	- With AUX line: 0.4 C
		- Only AVEbus line: 12.5 C

Characteristics of controllable electric load

Oile	onar actor ictics or controllable clock to load			
•	Operating voltage field: - Rated voltage: 100Vac ÷ 240Vac			
		- Voltage limit: 90Vac ÷ 253Vac		
		- Power supply frequency: 50Hz ÷ 60Hz		
•	Controllable electric loads:	- See table below		

Connections

•	Terminal 1:	L Mains line Vac	• Terminal 4:	Positive BUS
•	Terminal 2:	N Mains neutrum Vac	• Terminal 5 :	GND
•	Terminal 3:	Dimmer output Vac	• Terminal 6 :	Positive auxiliary power
			• Terminal 7:	Negative auxiliary power

Description of the front

On the front there are three optical indicators of device function:

	L1 - Power supply	L2 - Output	L3 - Output failure
Fixed ON light	AVEbus and auxiliary power missing	ON load: Trailing - Leading	Interrupted load / Power below minimum / Thermal protection
3 flashings	AVEbus missing		
1 flashing	Normal function		
Slow flashing		OFF alert: Trailing - Leading	Overload protection
Fast flashing	Device being programmed		Short-circuit protection
Off	Mains / fuse failure	OFF load	Normal function





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Номе Аптоматіон

HOTEL MANAGEMENT

VIDEO IN

53AB-DIM

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

53AB-DIM

TECHNICAL INFORMATION



Mains power supply for dimmable load output (see table below)

PROTECTION FUSE

The back of the device presents the short-circuit protection comprising a replaceable time-delay fuse with high interruption power (1,6A / 250Vac - T1,6AH - Ø 5 x 20 mm).



AVEbus controls

Stepper control: AVEbus addresses from 01 to EF Family control: AVEbus addresses from F0÷FE

General control: AVEbus FF addresses

Group control (configuration through dedicated parameter):

- AVEbus addresses from C0+CF / D0+DF / E0+EF

Status memory

The previous light intensity level is saved in the memory when the load is switched off in order to apply the same level when switched on again.

Soft or flash switch on

Gradual switch on and off (soft start and soft end) to lengthen lamp life. Flash function for special lamp types.

Minimum charge control

The technology controls the minimum light intensity for correct lamp function.

"Staircase lighting" function

"Switch Off Alert" ensures that lamps do not switch off instantly but gradually diminish light intensity, alerting that lights are switching off.

Master-Slave structure

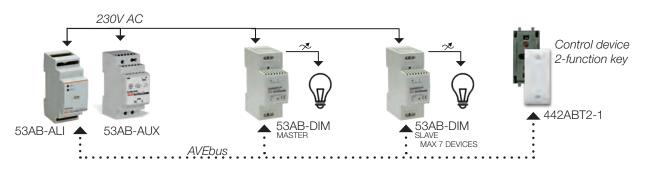
Controls up to 8 light lines at the same time (no. 1 Master + no. 7 SLAVE).

Load table

Mains	voltage		230V~	~ 50Hz			115V-	~ 60Hz		
Tuno	of load	Lea	ding	Trai	iling	Lea	ding	Tra	iling	U.M.
туре	of load	Min	Max	Min	Max	Min	Max	Min	Max	U.IVI.
\\$		3	360	3	200	1.5	180	15	100	
₩	c	Forbi	idden	10 2001)		Forbi	dden	5	1001)	[W]
		10	3601)	Forbidden		5	1801)	Forbidden		
		10	3602)			5	1802)			[VA]
*	c	Forbi	idden	3 150 ₃₎		Forbi	dden	1.5	803)	
		3	1003)	Forb	idden	1.5	50 ₃₎	Forb	idden	[W]
	-LC	3	2004)	3	2004)	1.5	1004)	1.5	1004)	

1) max 4 transformers - 2) max 43 transformers - 3) max 20 lamps - 4) max 10 lamps

EXAMPLE OF USE





TECHNICAL CATALOGUE DOMINAPIO ACTUATOR DEVICES

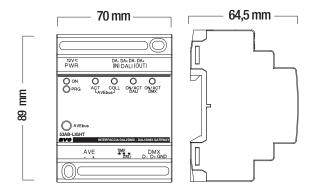
AVEBUS GATEWAY FOR DALI LIGHTING - cod. 53AB-LIGHT

The 53AB-LIGHT device is an interface between AVEBus and the DALI lighting buses® and DMX-II or DMX512. The device converts into two

directions some chosen information that transits along the AVEbus automation bus (from control or supervisor devices) and retransmits it to the lighting bus. This allows to control switching on/off and adjustment of lights with a DALI® connection and DMX-II or DMX512 through the AVEbus automation devices.

The function mode (DALI or DMX) is by default defined by positioning a hardware jumper (provided). Moreover, by modifying the set up, it is possible to, instead, force a specific mode, regardless of the position of the hardware jumper.

The device also acts as configuration interface for the main parameters of the DALI® lighting bus, allowing the user to use the same software both to program the AVEbus peripheral units and to program the Addresses, groups and scenarios of the DALI® lighting bus.

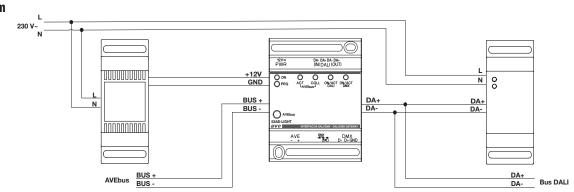


Toobnical details

Tec	hnical details	
•	Module:	4 DIN modules (68.5 w x 89 h x 64.5 d) mm
•	Protection degree:	IP 30D in DIN boxes
•	Reference Temperature and Relative Humidity:	25°C RH 65%
•	Temperature range Operating environment:	from -10°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.
•	Auxiliary power supply:	- Rated voltage from SELV source: 12Vdc
		- Allowed fluctuation: 10.5Vdc - 14Vdc
		- Absorption at 12Vdc: 130mA
•	Absorption from the AVEbus line:	- With AUX line: 0.7 C
		- Only AVEbus line: n.d.
Cor	nections	
•	Terminal 1:	± Input power supply device 12Vdc/ac
•	Terminal 2:	± Input power supply device 12Vdc/ac
•	Terminal 3:	[DA-] Input DALI bus
•	Terminal 4:	[DA+] Input DALI bus
•	Terminal 5:	[DA-] Output DALI bus
•	Terminal 6:	[DA-] Output DALI bus
•	Terminal 7:	[-] Negative AVEbus
•	Terminal 8:	[+] Positive AVEbus
•	Terminal 9:	[D-] Line B DMX-II bus (cold pole)
•	Terminal 10:	[D+] Line A DMX-II bus (hot pole)
•	Terminal 11:	[GND] Reference ground for DMX-II bus
Wai	ning. The device and 53AR-LIGHT does not nower t	he DALL has It must be combined with an appropriate power supply unit for the DALL

Warning: The device cod. 53AB-LIGHT does not power the DALI bus. It must be combined with an appropriate power supply unit for the DALI bus.

Wiring diagram







Q

Home Automation

HOTEL MANAGEMENT

ANTI INTRUSION

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53AB-LIGHT

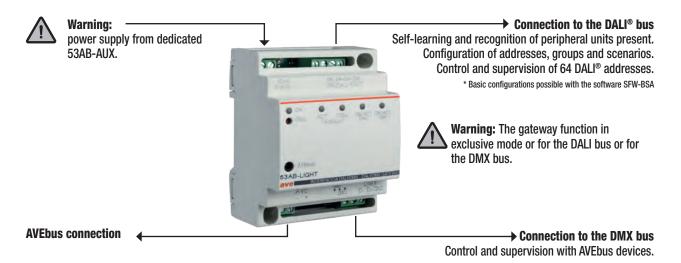
53AB-LIGHT

Two-way AVEbus interface device for lighting systems with DALI interface and DMX512 - 4 modules

Warning:

The device cod. 53AB-LIGHT does not power the DALI bus. It must be combined with an appropriate power supply unit for the DALI bus.

TECHNICAL INFORMATION



AVEbus controls

Stepper control: On / Off / Increase / Reduce

- AVEbus addresses from 01 to EF

Stepper control: On / Off / Increase / Reduce

- AVEbus addresses from AO-AF, BO-BF, CO-CF, DO-DF and EO-EF

Stepper control: On / Off / Increase / Reduce

- AVEbus addresses from A0-AF, B0-BF, C0-CF, D0-DF and E0-EF

Conversion to DALI controls

Stepper control: On / Off / Increase / Reduce

- DALI addresses from 1 to 64

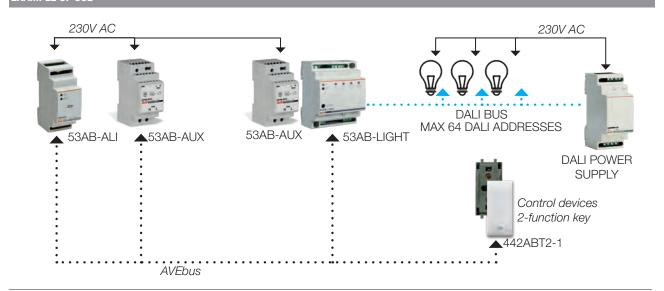
Group Control: On / Off / Increase / Reduce

- DALI addresses from 1 to 16

See Scenario: On / Off / Value

- DALI addresses from 1 to 16

EXAMPLE OF USE

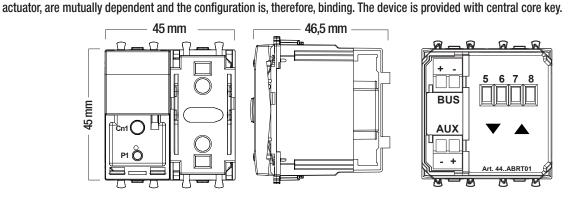




TECHNICAL CATALOGUE **DOMINAPRO ACTUATOR DEVICES**

SHUTTER ACTUATOR WITH LOCAL CONTROL - cod. 44..ABRT01

The device 44...ABRT01 is a built-in actuator with local control to control motorised shutters. The device comprises, besides the front part of the control, also actuation devices, whose volt free relay contacts with interlock are located at the back. The two functions, local control and



Technical details

iecimicai detans	
Module:	2 modules System 44 (45 w x 45 h x 46.5 d) mm
Protection degree:	IP41 if installed in the respective flush-mounted box.
 Reference Temp. and Rel. Humidity: 	25°C RH 65%
Temperature range Operating environment:	from -10°C to +50°C
Maximum Relative Humidity:	90% at 35°C
Max. Height:	2000 m a.s.l.
 Auxiliary power supply 	- Rated voltage: 12Vac/dc
	- Allowed fluctuation: 10.5V - 14V
	- Absorption at 12Vdc: 18.6 mA MAX
 Absorption from the AVEbus line: 	- With AUX line: 0.3 C
	- Only AVEbus line: 7.3 C
Connections	
Terminal 1:	positive BUS
Terminal 2:	GND
• Terminal 3:	positive auxiliary power
Terminal 4:	negative auxiliary power
Terminal 5:	relay contact for "lower" control signal
Terminal 6:	common relay contact
• Terminal 7:	common relay contact
• Terminal 8:	relay contact for "raise" control signal
Characteristics of controllable electric load	
 Ohmic load (cosφ1): 	10A at 230Vac
 Inductive load (cosφ 0.4): 	4A at 230Vac
Description of the front	

Description of the front

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

- Blue LED (working only when the auxiliary power is on)
 - ON allows orientation in the dark.
- Amber LED, indicates the status of the device
 - Fast flashing, device being programmed
 - Slow flashing, the relay is about to change status (actuation delay)
 - ON, relay contact of the receiver closed
 - OFF, relay contact of the receiver open



 W10				
Function 1:	5 s	Function 9:	1 min 20 s	
Function 2:	10 s	Function 10:	1 min 30 s	
Function 3:	20 s	Function 11:	1 min 40 s	
Function 4:	30 s	Function 12:	1 min 50 s	
Function 5:	40 s	Function 13:	2 min	
Function 6:	50 s	Function 14:	2 min 10 s	
Function 7:	1 min			
Function 8:	1 min 10 s	Function 31:	5 min	





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юме Аптоматіом

HOTEL MANAGEMENT

□ 441ABRT01 ■ 445ABRT01

Actuator for shutter motor with local control. It has two relays with interlocked contacts - 10A resistive - Domus series - Tekla - Class - 2 modules

449ABRT01

■ 442ABRT01 ■ 443ABRT01

Actuator for shutter motor control with local control. It has two relays with interlocked contacts - 10A resistive - Life series - Allumia - 2 modules





445ABRT01



449ABRT01

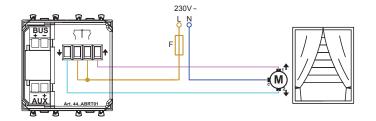
441ABRT01

442ABRT01

443ABRT01

TECHNICAL INFORMATION

Warning:
The front control is bound to the load control connected to the device. To release the control, use the device cod. 442ABT4R2





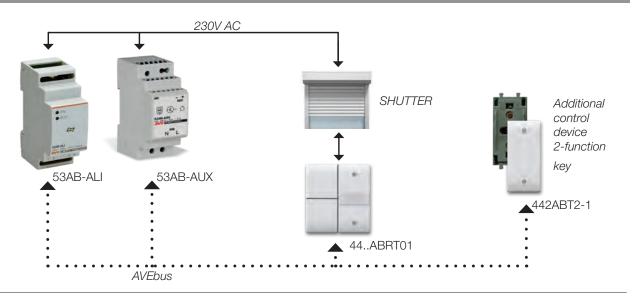
The type of shutter movement changes depending on the order received:

- Complete rise/descent, when the front key is pressed for less than 0.5 s.

 The shutter moves for the entire time interval indicated by the programmed function (see table on the next page). If any order is received (by pressing the button again) during the actuation phase, the shutter stops moving.
- **Shutter level increases/decreases**, when the front key is pressed for more than 0.5 s. The shutter moves for the entire period the button is pressed (**function with person present**).

To avoid the sum of current absorptions resulting from the inrush of the motors, the relay actuation delay of each device can be set when controls with broadcast (FF) address are used. The programmed time lapse will be multiplied by the number equivalent of the first character of the address of the device (e.g., $5 \, \text{s}$ with Address 21, which corresponds to a delay of $5 \, \text{s} \, \text{x} \, 2 = 10 \, \text{s}$).

FUNCTIONAL DIAGRAM

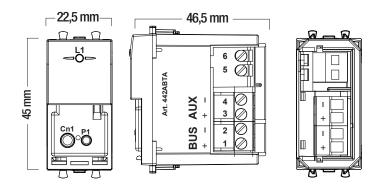




TECHNICAL CATALOGUE DOMINAPIO INTERFACE DEVICES

TRANSMITTER FOR ALARM SIGNALS - COD. 44..ABTA

The 44..ABTA device is a 1-channel alarm transmitter with two inputs, one (IN input) is always active and the second one (RESET) can be used only for functions that require local recognition of an alarm, if any. This device monitors the IN input status and sends an alarm message when the status changes (for example a "bathroom call"), allowing to control a lighting actuator ..ABRx (for optical/luminous activation, if any).



Technical details

	minour dotailo	
•	Module:	1 System 44 module (22.5 w x 45 h x 46.5 d) mm
•	Protection degree:	IP41 if installed in the respective flush-mounted box.
•	Reference Temp. and Rel. Humidity:	25°C RH 65%
•	Temperature range Operating environment:	from -10°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.
•	Auxiliary power supply	- Rated voltage 12Vac/dc
		- Allowed fluctuation: 10.5V - 14V
		- Absorption at 12Vdc: 2.2 mA MAX
•	Absorption from the AVEbus line:	- With AUX line: 0.3 C
	<u>.</u>	- Only AVEbus line: 2.7 C

Connections

•	Terminal 1:	positive BUS
•	Terminal 2:	GND
•	Terminal 3:	positive auxiliary power
•	Terminal 4:	negative auxiliary power
•	Terminal 5:	input alarm
•	Terminal 6:	input alarm reset

Description of the front

On the front there is an optical indicator for device function and programming status:

- Amber LED, indicates the status of the device
 - Fast flashing, device being programmed
 - OFF, normal function

	Input N.O.			Input N.C.
	Function 1: BINARY INPUT			ND
((•)) ALARM	Function 2:	without memory, sends the ALARM signal	Function 7:	without memory, sends the ALARM signal
	Function 3:	without memory, sends the START signal	Function 8:	without memory, sends the START signal
>'	Function 4:	without memory, sends the STOP signal	Function 9:	without memory, sends the STOP signal
$\lambda \lambda$	Function 5:	without memory, sends the STEP signal	Function 10:	without memory, sends the STEP signal
	Function 6:	without memory, sends the RUN + STOP signal	Function 11:	without memory, sends the START + STOP signal
(((•))) ALARM	Function 12:	with memory, sends the ALARM signal	Function 17:	with memory, sends the ALARM signal
	Function 13:	with memory, sends the START signal	Function 18:	with memory, sends the START signal
24	Function 14:	with memory, sends the STOP signal	Function 19:	with memory, sends the STOP signal
シベ	Function 15:	with memory, sends the STEP signal	Function 20:	with memory, sends the STEP signal
	Function 16:	with memory, sends the START + STOP signal	Function 21:	with memory, sends the START + STOP signal





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Номе Антоматіон

HOTEL MANAGEMENT

Anti Intrusion

VIDEO INTERCOM

441ABTA 445ABTA 449ABTA

□ 441ABTA ■ 445ABTA ■ 449ABTA

1-channel transmitter for alarm signals - Domus series - Tekla - 1 module

■ 442ABTA ■ 443ABTA

1-channel transmitter for alarm signals - Life series - Allumia - 1 module





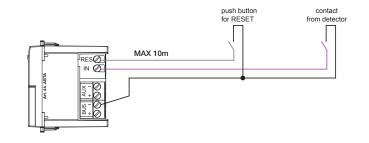
442ABTA 443ABTA

TECHNICAL INFORMATION



Warning:

To interface any contacts use twisted shielded wires.



COMPATIBLE WITH PROBES AND/OR SENSORS







RG1/CO2 Carbon dioxide detector

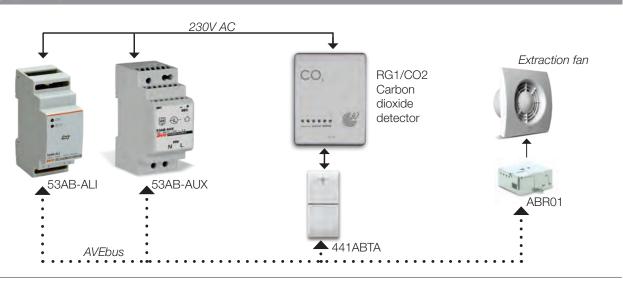


AF44..062 Movement detector



441079 Electronic hygrostat (humidostat) with knob

FUNCTIONAL DIAGRAM





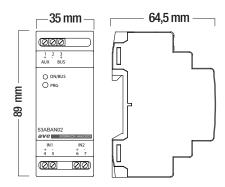
TECHNICAL CATALOGUE DOMINAPIO INTERFACE DEVICES

2-CHANNEL ANALOG INTERFACE DEVICE - cod. 53ABAN02

The 53ABAN02 is an AVEbus interface with two analog inputs that can be managed in various configurations and modes. The two inputs read the analog voltage signals (e.g., 0-10V), voltage (e.g., 4-20mA), and can also be configured as digital input (frequency measures 0-2kHz) and/or as temperature detection inputs with NTC ($10k\Omega - B=3380$) or thermocouple Pt100.

The device is developed to function with distributed logic. In fact, it can be configured to manage AVEbus controls independently, based on the input value detected, compared to the five programmable thresholds (LO, L, M, H and HO).

Moreover, the device can be supervised by a DOMINA^{pro} Touch Screen from which, besides displaying the status of analog inputs, it is also possible to set the value of parameter thresholds for the independent function of the interface.



Technical details

iec	nnicai detaiis		
•	Module:	2 DIN modules (35 w x 89 h x 64.5 d) mm	
•	Protection degree:	IP30D with dedicated terminal covers provided	
•	Auxiliary power supply from SELV source:	12Vdc	
•	Allowed fluctuation:	10.5Vdc - 14Vdc	
•	Absorption at 12Vdc:	30mA (analog input)	
		- 35mA (Pt100 input)	
		- 25mA (digital input)	
•	Absorption from the AVEbus line:	- With AUX line: 0.3 C	
		- Only AVEbus line: n.d.	
•	Input impedance (0-10V):	375 kΩ	
•	Input impedance (4-20mA):	121 Ω	
•	Reference Temp. and Rel. Humidity:	25°C RH 65%	
•	Temperature range Operating environment:	from -10°C to +50°C	
•	Maximum Relative Humidity:	90% at 35°C	
•	Max. Height:	2000 m a.s.l.	
Cor	nections		
•	Terminal 1: Positive auxiliary power supply	Terminal 4: Positive analog input 1	
•	Terminal 2: GND	Terminal 5: Reference ground for input 1	
•	Terminal 3: Positive BUS	Terminal 6: Positive analog input 2	
		Terminal 6: Reference ground for input 2	

Table of values that can be acquired

abic of values that our be adjunct					
Voltage	Current	Resistance			
Measurement range: from 0 to 12V (MAX)	Measurement range: from 0 to 22mA (MAX)	Measurement range: 0-2,5kΩ (1mA), 0-250kΩ			
Scales: 0-10V, 1-10V, 0-5V, 0-1V	Scales: 0-20mA, 4-20mA	(10μA)			
Resolution: 1mV (absolute) / 10mV (%)	Resolution: 1µA (absolute) / 20µA (%)	Scales: 0-2,2kΩ, 0-220kΩ			
Input impedance: > 300 k Ω	Input impedance: 121Ω	Resolution: 0.1Ω (absolute) / 2.2Ω (%)			
		Resolution: $0,1\Omega$ (absolute) / 220Ω (%)			
Dry contact	Frequency	Measurement currents (K): 1mA and 10µA			
Impulse count (minimum duration of impulse: 10ms)	Measurement range: from 0 to 12kHz	modes. on one canonic (ry. mil rand replic			
Contact status reading: N.C. or N.O.	Scales: 0-200Hz, 0-2kHz, 0-10kHz	Warning: If both inputs are used to measure the			
Rapid alarm detection: 10ms min (fast)	Resolution: 1Hz (absolute) / 1–1–5Hz (%)	resistance, they must be programmed with the same			
Standard alarm detection: 0.5s min (std)	Reading type: Clean contact status	lowest value of the scale			

PT100

Measurement range: from -120°C to +180°C Single scale: -100°C to +150°C Resolution: 0.1°C (absolute) / 0.25°C (%) Measurement currents (K): 1mA

Input with internal pull-up at +5Vdc

NTC 10k - B=3380

Measurement range: from -50°C to +140°C Single scales: -40°C to +125°C, -40°C to +60°C, -0°C to +50°C Resolution: 0.1° C (absolute) / 0.165° C (%)

Measurement currents (K): 10µA C

Warning: The device does not implement corrections and/or typical algorithms of a thermostat (offset, hysteresis, temperature compensations, etc.), and sends the temperature values measured in the dedicated format to DOMINAP^{ro} temperature control; hence, it cannot be used to replace ambient thermostats cod. 44xABTM03 or higher. If both inputs are used to measure the temperature, they must be programmed and connected to identical probes (either both PT100 or both NTC).





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Номе Антоматіон

OTEL MANAGEME

VIDEO INTERC

53ABAN02



Interface with 2 analog inputs (0-10V, 4-20mA, PT100 and NTC) for probes and sensors 2 DIN

53ABAN02

TECHNICAL INFORMATION



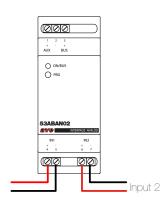
Warning:

The device 53ABAN02, combined with one of the stand-out covers with

temperature probe, allows to detect ambient temperature and to control an actuator (note: this function is not included in DOMINA pro temperature control). The DOMINAPRO System manages at most 50 devices 53ABANO2.

The device does not allow to use the following combinations of probes:

- If an input is connected to an NTC type probe, Pt100 or R2.2K type probes cannot be connected to the other input (Resistance from 0 to 2200Ω).
- If an input is connected to a Pt100 type probe, NTC or R220K type probes cannot be connected to the other input (Resistance from 0 to 220000Ω).
- If an input is connected to a R2.2K type probe (Resistance from 0 to 2200Ω), R220K type probes cannot be connected to the other input (Resistance from 0 to 220000Ω).



Input 1

COMPATIBLE WITH PROBES AND/OR SENSORS



RG1/CO2 Carbon dioxide detector



441079 Electronic hygrostat (humidostat) with handpiece



441SO-NTC Ambient temperature probe type NTC 10K

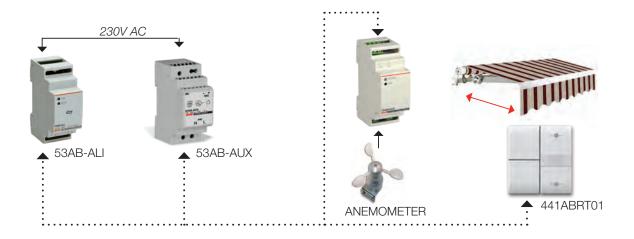


POWER-420Amperometric transformer (AC and DC) with analogue output



AR105 Floor level water sensor

FUNCTIONAL DIAGRAM

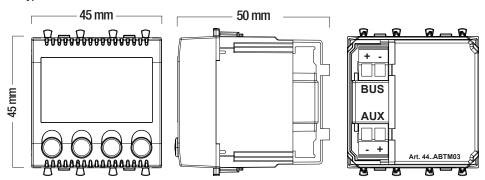




DOMINAPIO DEVICES FOR TEMPERATURE CONTROL AND AIR CONDITIONING

AMBIENT THERMOSTAT - cod. 44..ABTM03B

The 44..ABTM03B is an ambient thermostat connected to the AVEbus automation bus. The device can be installed combined with a temperature control actuator when time programming is not required. In this case there is an independent "only thermostat" type function. If, instead, time programming is required (weekly temperature profile), the device must be combined with the Web Server or Touch Screen automation supervisor on which any choice can be made regarding temperature profile and control of several temperature zones. In this case there is a centralised "Chronothermostat" type function.



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16.		11 U		11.5

Tecl	nnical details	
•	Module:	2 modules System 44 (45 w x 45 h x 50 d) mm
•	Protection degree:	IP40 if installed in the respective flush-mounted box.
•	Reference Temp. and Rel. Humidity:	25°C RH 65%
•	Temperature range Operating environment:	from -10°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.
•	Auxiliary power supply	- Rated voltage: 12Vac/dc
		- Allowed fluctuation: 10.5V - 14V
		- Absorption at 12Vdc: 11.5 mA MAX
•	Absorption from the AVEbus line:	- With AUX line: 0.7 C
		- Only AVEbus line: 5.5 C
Con	nections	
•	Terminal 1:	positive BUS
•	Terminal 2:	GND
•	Terminal 3:	positive auxiliary power
•	Terminal 4:	negative auxiliary power
Cha	racteristics of temperature control	
	surement range:	from 0°C to 40°C
•	Regulation range:	from 5°C to 35°C (independent function)
	V ** V*	± 5° compared to the set point set on the touch screen (central operation)
•	Reproducibility error:	0.2°C max
•	Fidelity error:	0.3°C max
•	Differential:	0.2°C to 2.5°C adjustable

Description of the operation

The user can use the front buttons of the ambient thermostat to set the required temperature. Or, if combined with a supervisor, it allows to temporarily override the Weekly Programme in operation, which is present in the home automation supervisors (Touch Screen or Web Server). This regulation field is determined during installation by specific configuration and allows the home automation system to operate in various types of location that need not necessarily be residential.

There are 239 addresses to be assigned to temperature zones, each with its own weekly programme for summer and winter, within which the temperatures for saving, pre-comfort and comfort for each season are established. Furthermore, each temperature zone is also able to control an air conditioner via the infra-red interface, thus making the DOMINA^{pro} home automation system versatile and integrated with the components of the domestic system.

The supervision devices, Touch Screen and Web Server, monitor the entire temperature control system with the contribution of the centralised user graphic interface. From these devices it is possible to: Switch on/off the temperature zone, Set the season (Summer / Winter), Set the desired ambient temperature in "Temporary" or "Permanent" mode, Set the maximum speed for any fan coil units to improve the living comfort, Customise the weekly programme, Display the status of any window present in the temperature zone and Lock/Unlock the keypad of the ambient thermostat to protect its settings.

Moreover, if window status management is enabled, detected via the alarm interface, cod. 44..ABTA or by interfacing with the anti-intrusion alarm system, if the window is open, the thermostat will interrupt air conditioning in the relevant room. For the entire period of the interruption the ambient temperature shown on the digital display of the thermostat will flash and when the window is closed, the air conditioning will automatically recommence and the display will stop flashing.





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Номе Аптоматіом

HOTEL MANAGEMENT

INTRUSION

555.

441ABTM03B 445ABTM03B

□ 441ABTM03B ■ 445ABTM03B ■ 449ABTM03B

Thermostat with display - Domus series - Tekla - Class - 2 modules

■ 442ABTM03B ■ 443ABTM03B

Thermostat with display - Life series - Allumia - 2 modules



449ABTM03B

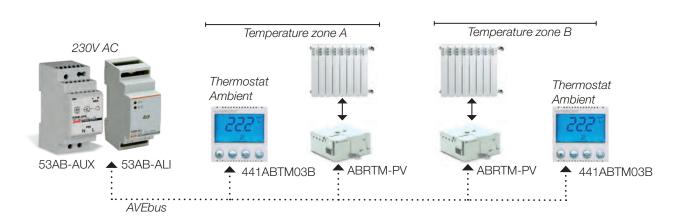


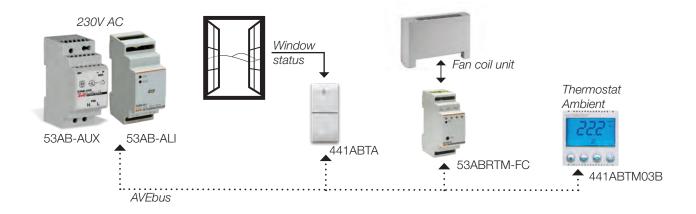


442ABTM03B

443ABTM03B

FUNCTIONAL DIAGRAM



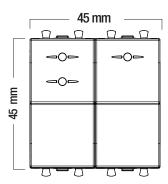


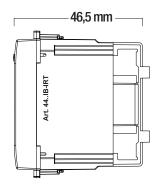


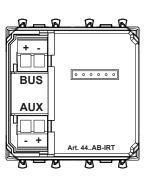
DOMINAPIO DEVICES FOR TEMPERATURE CONTROL AND AIR CONDITIONING

AVEBUS INTERFACE FOR IR CONTROL TRANSMISSION - COD. 44..AB-IRT

The 44..AB-IRT is a device for the transmission of IR controls that allows integration between the DOMINApro automation system and air conditioning systems, sound (Stereo, CD readers, etc.) and other domestic appliances controlled by infra-red, learning and imitating the controls of the original remote control of the devices.







Technical details

160	innical details		
•	Module:	2 module S.44 (WxHxD) 45 x 45 x 46.5 mm	
•	Protection degree:	IP40 installed in the respective wall-mounted or built-in box	
•	Auxiliary power supply from SELV source:	- Rated voltage 12Vdc	
		- Allowed fluctuation: 10.5Vdc - 14Vdc	
		- Absorption at 12Vdc: 27.0 mA	
•	Reference Temp. and Rel. Humidity:	25°C RH 65%	
•	Temperature range Operating environment:	from -10°C to +50°C	
•	Maximum Relative Humidity:	90% at 35°C	
•	Max. Height:	2000 m a.s.l.	
•	Technical characteristics compatible IR controls:	Power supply frequency between 30kHz and 60kHz	
•	Absorption from the AVEbus line:	- With AUX line: 0.12 C	
		- Only AVEbus line: n.d.	
Con	nections		
•	Terminal 1: Positive BUS	Terminal 3: Positive SELV auxiliary power supply	
•	Terminal 2: GND (BUS)	Terminal 4: GND (AUX)	
•	Jack 3.5 mm for IR transmitter (front)		
	WARNING: As an alternative to the local emitter.	Cable configuration connector (rear)	

Function with Air Conditioners The device cod. 44..AB-IRT can be used in combination with a home automation thermostat cod. 44..ABTM03B to automatically manage any split installations of air conditioners with infra-red interface. When the "split" function is active, a message is displayed on the home automation bus that allows to send the IR command associated with the data received.

SLOT 1	Cool – Temperature Control OFF	Memorise the IR order "Air Conditioner OFF"
SLOT 2	Cool - Set-point = 05°C	Memorise the IR order "ON 05°C - COOL""
SLOT 63	Heating - Set-point = 34°C	Memorise the IR order "ON 34°C - HEATING""
SLOT 64	Heating - Set-point = 35°C	Memorise the IR order "ON 35°C - HEATING""

Function with AVEbus Control devices The device cod. 44..AB-IRT can be used in combination with one or more control devices with the function "Run" and/or "Stop" with AVEbus address between "AO" and "AF" to transmit the IT order stored in the dedicated area of the memory.

SLOT 1	AVEbus order RUN Address "A0"	Memorise the IR order chosen
SLOT 2	AVEbus order RUN Address "A1"	Memorise the IR order chosen
SL0T 31	AVEbus order STOP Address "AE"	Memorise the IR order chosen
SLOT 32	AVEbus order STOP Address "AF"	Memorise the IR order chosen

Function with AVEbus Control devices The device cod. 44..AB-IRT can be used to transmit an IR order associated with a certain AVEbus message, for example "OPEN SHUTTER". In this manner, whenever that specific AVEbus message is displayed, the associated IR order is transmitted.

SLOT 1	AVEbus order chosen	Memorise the IR order chosen
SLOT 16	AVEbus order chosen	Memorise the IR order chosen





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Номе Аυтоматіом

HOTEL MANAGEMENT

ANT



441AB-IRT

445AB-IRT



□ 441AB-IRT ■ 445AB-IRT ■ 449AB-IRT

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

■ 442AB-IRT ■ 443AB-IRT

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

ABPC001

Cavo USB di programmazione per dispositivi 44xAB-IRT.

Permette la configurazione del contenuto della memoria del dispositivo (comandi IR da replicare) con relativo software SFW-IRT disponibile nell'area download del sito www.ave.it

TECHNICAL INFORMATION

Configuration of AVEbus parameters

The configuration of parameters and the bus address is implemented via the software SFW-BSA with relative USB interface cod. BSA-USB connected to the home automation bus via the Cn1 socket of any device connected to the same bus.

The device enters configuration mode when the PRG button is briefly pressed, and this is indicated by a flashing yellow LED (L1).



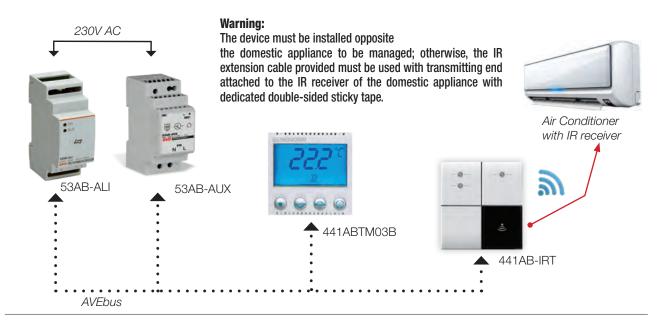
While the configuration of the contents of the device's memory (IR orders to be replicated) occurs via the dedicated serial cable for configuration cod. ABPC001 with relative software SFW-IRT with device only powered with 12V (AUX) (it must be disconnected from the BUS)

Addressing

For normal IR commands, the device can be freely addressed using the addresses available, which range from 01 to EF. Instead, air conditioner control via IR orders depends on the configuration of the air conditioning system. Particularly, the R interface must be addressed with the same bus address of the zone thermostat cod. 44..ABTM03B



FUNCTIONAL DIAGRAM



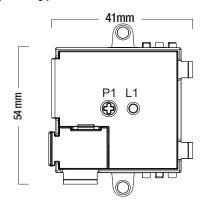


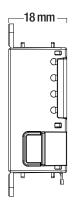
DOMINAPIO DEVICES FOR TEMPERATURE CONTROL AND AIR CONDITIONING

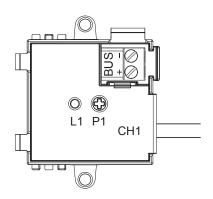
HIDDEN 1-CHANNEL TEMPERATURE CONTROL ACTUATOR - cod. ABRTM-PV

The ABRTM-PV device is a 1-channel bus actuator for temperature control with dry contact that can control solenoid valves and hydraulic solenoid pumps. The device is contained in a compact versatile module that is suitable for installation anywhere. For example, it can be placed in a junction box or in a false ceiling. The two tabs make it possible to anchor it using screws but if necessary they can be broken off to reduce the overall bulk. Due to its dimensions, it can be inserted in a blank insert of the wiring accessories (S44).

In temperature control systems the control activation depends on the configuration of the hydraulic air conditioning system and, in particular, the solenoid valve or the pump must be controlled by zone, group of zones or central control. Moreover, the valve can be of several types (ON/ OFF, OPEN/CLOSE, etc.). The AVEbus home automation actuator allows to manage all these functions through an advanced configuration of the programming parameters.







Technical details

•	Module:	(54 w x 41 h x 18 d) mm
•	Protection degree:	IP20D
•	Reference Temp. and Rel. Humidity:	25°C RH 65%
•	Temperature range Operating environment:	from -10°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.
•	Absorption from the AVEbus line:	- With AUX line: n.d.
		- Only AVEbus line: n.d.

Characteristics of controllable electric load

•	• Ohmic load (cosφ1):	2A at 230Vac	
•	Inductive load (cosφ 0.6):	2A at 230Vac	

Connections

•	Terminal 1:	positive BUS
•	Terminal 2:	GND
•	Ch1:	output contact (white colour)

Description of the front

On the front there is an optical indicator for device function and programming status:

- Amber LED (L1): indicates the status of the device
 - Slow flashing, indicates that the relay is about to change status (actuation delay)
 - Fast flashing, device being programmed
 - OFF, normal function



Function 1:	Summer/Winter operation with actuation type ON/OFF
Function 2:	Summer only operation with actuation type ON/OFF
Function 3:	Winter only operation with actuation type ON/OFF
Function 4:	Summer/Winter operation with actuation type OPEN
Function 5:	Summer only operation with actuation type OPEN
Function 6:	Winter only operation with actuation type OPEN
Function 7:	Summer/Winter operation with actuation type CLOSE
Function 8:	Summer only operation with actuation type CLOSE
Function 9:	Winter only operation with actuation type CLOSE





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Номе Аυтоматіом

HOTEL MANAGEMENT

VIDEO IN

WIRING DIAGRAMS

ABRTM-PV

1-channel hidden actuator for valves and hydraulic solenoid pumps dimensions (WxHxD) 54x41x18 mm



TECHNICAL INFORMATION

Warning

The device can be programmed as **zone actuator**, thus controlling a solenoid valve, or as **actuator for a group of zones**, thus controlling the hydraulic solenoid pump.

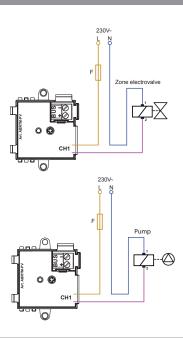
The choice of the type of operation is given by parameter no. 3, which can assume two values:

"Actuator type in Valve mode"

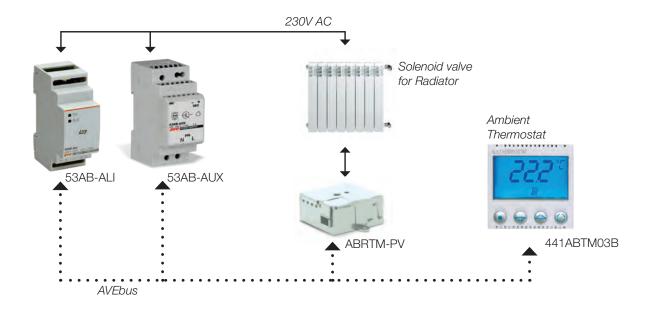
"Actuator type in Pump mode"

When the Pump mode is selected, the device will implement the output depending on the requests transmitted by the ambient Thermostats with address between that of the actuator and that of the address indicated in parameter no. 2.

In this mode the device also manages a **delay in implementation of the "pump" order** defined in parameter no. 1, to allow the solenoid valves to open before the pump starts operating.



FUNCTIONAL DIAGRAM AND CONFIGURATION SOFTWARE

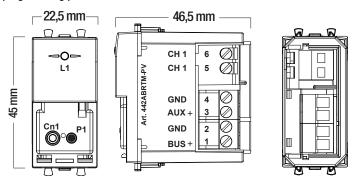




DOMINAPIO DEVICES FOR TEMPERATURE CONTROL AND AIR CONDITIONING

1-CHANNEL TEMPERATURE CONTROL ACTUATOR - cod. 44..ABRTM-PV

The 44..ABRTM-PV device is a 1-channel bus actuator for temperature control with dry contact output, which can control solenoid valves or hydraulic solenoid pumps. In temperature control systems the control activation depends on the configuration of the hydraulic air conditioning system and, in particular, the solenoid valve or the pump must be controlled by zone, group of zones or central control. Moreover, the valve can be of several types (ON/OFF, OPEN/CLOSE, etc.). The AVEbus home automation actuator allows to manage all these functions through an advanced configuration of the programming parameters.



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Tec	hnical details	
•	Module:	1 System 44 module (22.5 w x 45 h x 46.5 d) mm
•	Protection degree:	IP41 if installed in the respective flush-mounted box.
•	Reference Temp. and Rel. Humidity:	25°C RH 65%
•	Temperature range Operating environment:	from -10°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.
•	Auxiliary power supply	- Rated voltage: 12Vac/dc
		- Allowed fluctuation: 10.5V - 14V
		- Absorption at 12Vdc: 3.4 mA MAX
•	Absorption from the AVEbus line:	- With AUX line: 0.3 C
		- Only AVEbus line: 4.6 C
Con	nections	
•	Terminal 1:	positive BUS
•	Terminal 2:	GND
•	Terminal 3:	positive auxiliary power
•	Terminal 4:	negative auxiliary power
•	Terminal 5:	relay contact
•	Terminal 6:	relay contact
•		
Cha	racteristics of controllable electric load	
•	Ohmic load (cosφ1):	10A at 230Vac
•	Inductive load (cosφ 0.6):	4A at 230Vac

Description of the front

On the front there is an optical indicator for device function and programming status:

- Amber LED, indicates the status of the device
 - Fast flashing, device being programmed
 - Slow flashing, indicates that the relay is about to change status (actuation delay)
 - ON, relay contact of the receiver closed
 - OFF, relay contact of the receiver open



Function 1:	Summer/Winter operation with actuation type ON/OFF
Function 2:	Summer only operation with actuation type ON/OFF
Function 3:	Winter only operation with actuation type ON/OFF
Function 4:	Summer/Winter operation with actuation type OPEN
Function 5:	Summer only operation with actuation type OPEN
Function 6:	Winter only operation with actuation type OPEN
Function 7:	Summer/Winter operation with actuation type CLOSE
Function 8:	Summer only operation with actuation type CLOSE
Function 9:	Winter only operation with actuation type CLOSE





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HOTEL MANAGEMENT

VIDEO INTERCOM

□ 441ABRTM-PV ■ 445ABRTM-PV 449ABRTM-PV 1-channel actuator for valves and hydraulic solenoid pumps - Domus series - Tekla - Class

■ 443ABRTM-PV

1-channel actuator for valves and hydraulic solenoid pumps - Life series - Allumia



TECHNICAL INFORMATION

Warning

The device can be programmed as **zone actuator**, thus controlling a solenoid valve, or as actuator for a group of zones, thus controlling the hydraulic solenoid pump.

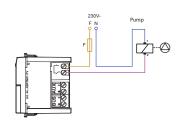
The choice of the type of operation is given by parameter no. 3, which can assume two values:



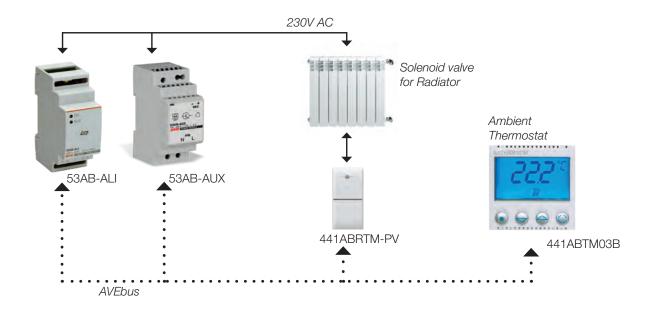
"Actuator type in Pump mode"

When the Pump mode is selected, the device will implement the output depending on the requests transmitted by the ambient Thermostats with address between that of the actuator and that of the address indicated in parameter no. 2.

In this mode the device also manages a delay in implementation of the "pump" order defined in parameter no. 1, to allow the solenoid valves to open before the pump starts operating.



FUNCTIONAL DIAGRAM

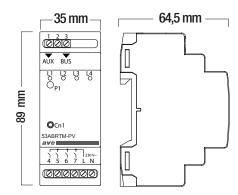




DOMINAPIO DEVICES FOR TEMPERATURE CONTROL AND AIR CONDITIONING

4-CHANNEL TEMPERATURE CONTROL ACTUATOR - cod. 53ABRTM-PV

The 53ABRTM-PV device is a 4-channel temperature control actuator for solenoid valves and hydraulic solenoid pumps. Depending on the configuration, the device can implement, for each of the four channels, the solenoid valve or the pump of the single zone, of a group of temperature zones or of all temperature zones by acting as general system actuator. In temperature control systems the control activation depends on the configuration of the hydraulic air conditioning system and, in particular, the solenoid valve or the pump must be controlled by zone, group of zones or central control. Moreover, the valve can be of several types (ON/OFF, OPEN/CLOSE, etc.). The AVEbus home automation actuator allows to manage all these functions through an advanced configuration of the programming parameters.



Technical details

IUU	IIIIIGAI UELAIIS		
•	Module:	2 DIN modules (WxHxD)	35 x 89 x 64.5 mm
•	Protection degree:	IP30D in DIN boxes	
•	Auxiliary power supply from SELV source:	- Rated voltage:	12Vdc
		- Allowed fluctuation:	10.5 - 14Vdc
		- Absorption at 12Vdc:	65mA (MAX)
•	Power supply from the 230Vac line:	- Rated voltage:	230Vac
		- Allowed fluctuation:	190Vac - 253Vac
		- Absorption at 230Vac:	10mA (MAX)
•	Reference Temp. and Rel. Humidity:	25°C RH 65%	,
•	Temperature range Operating environment:	from -10°C to +50°C	
•	Maximum Relative Humidity:	90% at 35°C	
•	Max. Height:	2000 m a.s.l.	
•	Absorption from the AVEbus line:	- With AUX line: 0.1 C	
	•	- Only AVEbus line: n.d.	

Warning:

power supply from SELV source and from the mains MUST NOT be connected at the same time, but must be used alternatively.

Characteristics of controllable electric load

•	Ohmic load (cosφ1):		1A a	1A at 230Vac		
•	Motor load:		1A a	1A at 230Vac		
Cor	nections					
•	Terminal 1:	Power supply aux SELV	•	Terminal 4: CH1 contact output		
•	Terminal 2:	GND (BUS and AUX)	•	Terminal 5: CH2 contact output		
•	Terminal 3:	Positive BUS	•	Terminal 6: CH3 contact output		
			•	Terminal 7: CH4 contact output		
			•	Terminal L: Power supply line 230 V~ and Common of the outputs		
			•	Terminal N: Neutral power supply 230 V~		









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юме Аптоматіон

HOTEL MANAGEMENT

INTRUSION

53ABRTM-PV

4-channel actuator for valves and hydraulic solenoid pumps - 1A - 2 DIN modules DIN



power supply from SELV source and from the 230Vac mains MUST NOT be connected at the same time, but must be used alternatively.

53ABRTM-PV

TECHNICAL INFORMATION

Warning

Each channel of the device can be programmed as **zone actuator**, thus commanding a solenoid valve, or as **actuator for a group of zones**, thus controlling the hydraulic solenoid pump.

The choice of the type of operation is given by parameter no. 3, which can assume two values:

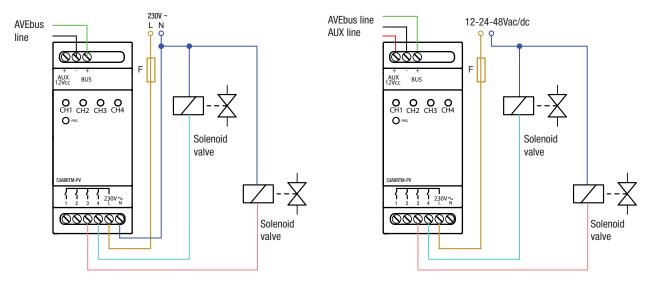
"Actuator type in Valve mode" or "Actuator type in Pump mode"

When the Pump mode is selected, the device will implement the output depending on the requests transmitted by the ambient Thermostats with address between that of the actuator and that of the address indicated in parameter no. 2.

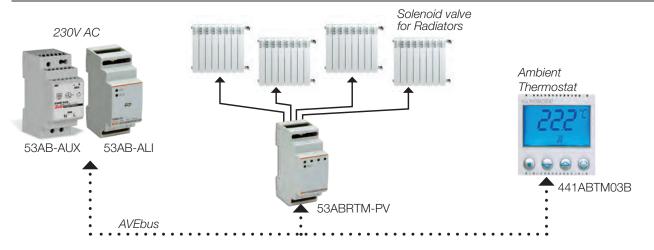
In this mode the device also manages a **delay in implementation of the "pump" order** defined in parameter no. 1, to allow the solenoid valves to open before the pump starts operating.

Actuation of solenoid valves 230Vac

Actuation of solenoid valves 12-24-48Vac/dc





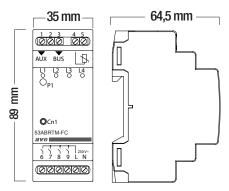




DOMINAPIO DEVICES FOR TEMPERATURE CONTROL AND AIR CONDITIONING

TEMPERATURE CONTROL ACTUATOR FOR FAN COIL UNITS - cod. 53ABRTM-FC

The 53ABRTM-FC device is a temperature control actuator for fan coil units. It has four relay outputs to control the solenoid valve and the three speeds of the fan coil unit. It allows to bind the actuation of the speed function of the temperature of the fluid circulating inside the radiator in order to avoid emission into the room of cold air in winter. The speeds are managed independently in a manner that is proportionate to the difference observed between ambient temperature and set temperature.



Technical details

	iiiiodi dotaiio		
•	Module:	2 DIN modules (WxHxD)	35 x 89 x 64.5 mm
•	Protection degree:	IP30D in DIN boxes	
•	Auxiliary power supply from SELV source:	- Rated voltage:	12Vdc
		- Allowed fluctuation:	10.5 - 14Vdc
		- Absorption at 12Vdc:	34mA (MAX)
•	Power supply from the 230Vac line:	- Rated voltage:	230Vac
		- Allowed fluctuation:	190Vac - 253Vac
		- Absorption at 230Vac:	11mA (MAX)
•	Reference Temp. and Rel. Humidity:	25°C RH 65%	
•	Temperature range Operating environment:	from -10°C to +50°C	
•	Maximum Relative Humidity:	90% at 35°C	
•	Max. Height:	2000 m a.s.l.	
•	Absorption from the AVEbus line:	- With AUX line: 0.1 C	
	•	- Only AVEbus line: n.d.	

Warning:

power supply from SELV source and from the mains MUST NOT be connected at the same time, but must be used alternatively.

Characteristics of controllable electric load

•	• Ohmic load (cosφ1):		1A a	1A at 230Vac		
•	Motor load:		1A a	at 230Vac		
Con	nections					
•	Terminal 1:	Power supply aux SELV	•	Terminal 6: Solenoid valve contact output		
•	Terminal 2:	GND (BUS and AUX)	•	Terminal 7: Speed 1 contact output		
•	Terminal 3:	BUS positive	•	Terminal 8: Speed 2 contact output		
			•	Terminal 9: Speed 3 contact output		
•	Terminal 4:	NTC water probe	•	Terminal L: Power supply line 230 V~ and Common of the outputs		
•	Terminal 5:	NTC water probe	•	Terminal N: Neutral power supply 230 V~		

The input of the probe (cod. 53GA91-T) allows to measure the delivery temperature to prevent starting ventilation when the liquid in the heat exchanger has not reached the operating temperature. If the probe is not connected, the function is not managed (see Parameters).

0.4	Function 1:		Summer/Winter operation
	Function 2:		Summer only operation
	Function 3:		Winter only operation
	0	Sum	mer temperature probe disabled
Parameter 1	1	Fan	operating in summer with Temp. probe < 13°C
Parameter i			
	11	Fan	operating in summer with Temp. probe < 23°C

		1	Only speed 1 can be enabled	
Parameter 4		2	Speeds 1 and 2 can be enabled	
		3	Speeds 1, 2 and 3 can be enabled	
	0	Winter ten	nperature probe disabled	
Parameter 1	1	Fan operating in winter with Temp. probe > 31°C		
2				
	11	Fan opera	ting in winter with Temp. probe > 41°C	





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Номе Аυтоматіом

HOTEL MANAGEMENT

ANTI INTRUSION

WIRING DIAGRAMS
AND PRESCRIPTION

53ABRTM-FC

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

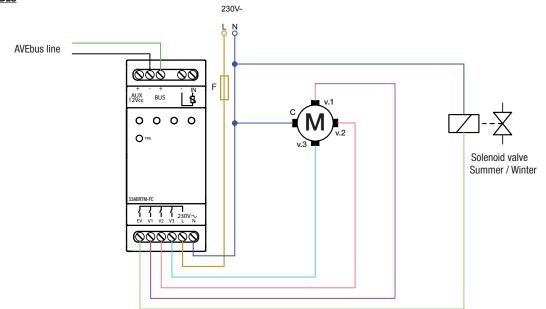
Warning:

power supply from SELV source and from the 230Vac mains MUST NOT be connected at the same time, but must be used alternatively.

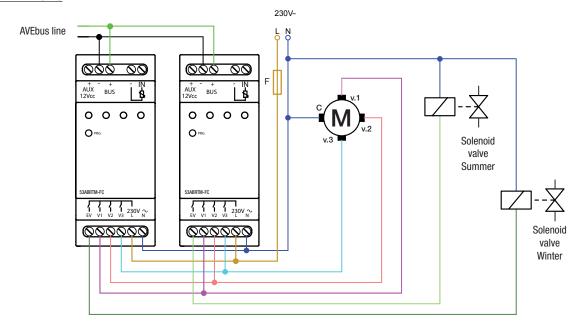
53ABRTM-FC

TECHNICAL INFORMATION

SYSTEMS WITH 2 TUBES



SYSTEMS WITH 4 TUBES

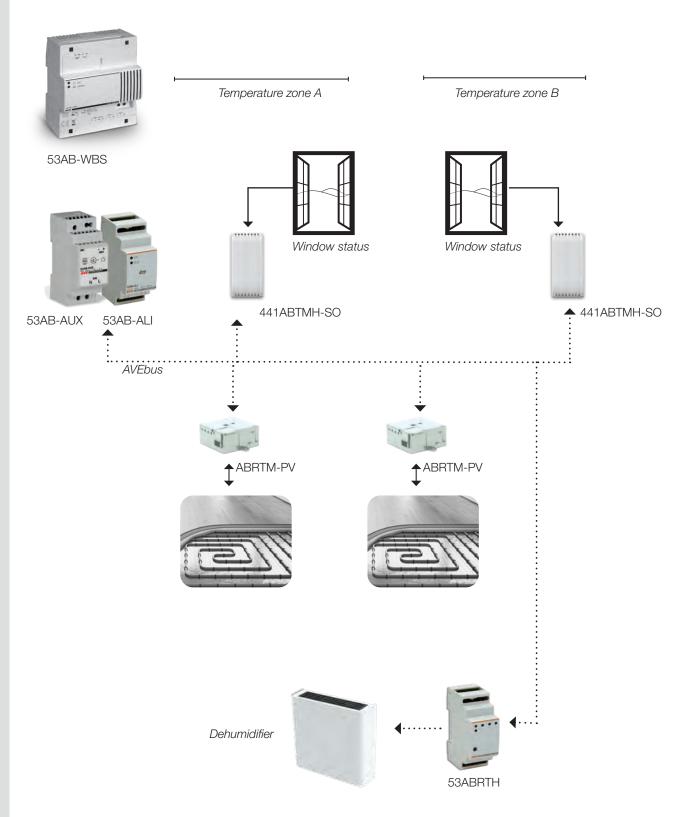




DOMINAPIO DEVICES FOR TEMPERATURE CONTROL AND AIR CONDITIONING

PROBE - ROOM THERMOSTAT

44..ABTMH-SO







HOTEL MANAGEMENT



□ 441ABTM-S0 ■ 445ABTM-S0 449ABTM-S0 AVEbus Probe - Room thermostat - Domus - Tekla - Class - series - 1 module

■ 442ABTM-S0 ■ 443ABTM-S0

AVEbus Probe - Room thermostat - Life - Allumia series - 1 module





Sonda - Termostato - Igrostato ambiente



449ABTMH-S0 ☐ 441ABTMH-S0 **■ 445ABTMH-S0** AVEbus Probe - Thermostat - Room hygrostat - Domus - Tekla - Class - series - 1 module

■ 442ABTMH-S0 ■ 443ABTMH-S0

AVEbus Probe - Thermostat - Room hygrostat - serie - Life - Allumia series - 1 module

441ABTMH-SO 445ABTMH-SO 449ABTMH-SO



442ABTMH-SO 443ABTMH-SO

Attuatore per deumidificatore



53ABRTH

AVEbus device - two configurable relay outputs - 1 channel - 2 DIN modules

Attuatore arresto pompa con reset locale



☐ 441ABRTHP ■ 445ABRTHP 449ABRTHP

AVEbus Pump stop actuator with local reset - Domus - Tekla - Class series - 1 module

■ 442ABRTHP ■ 443ABRTHP

AVEbus Pump stop actuator with local reset - Life - Allumia series - 1 module

441ABRTHP



Power Supply DEVICES and DOMINAPRO ACCESSORIES

BUS SYSTEM POWER SUPPLY - cod. 53AB-ALI

The 53AB-ALI device is a power supply unit that is stabilised by the AVEBus system. The AVEbus power supply system can be created using one or two power supply units connected in parallel or distributed appropriately in the system. The maximum distance between a power supply unit and another must not be greater than 300 m, while the maximum distance between a power supply unit and a peripheral unit must not exceed the maximum distance of 600 m.

Each power supply unit provides a quantity of energy that is represented with a numerical value equal to 150 "C". This value takes into account both the power issued and the signal band required for communication between the peripheral buses. Hence, the correct dimensioning of the system establishes that the absorption "C" of the peripheral units must not exceed the value of 300 "C" for each bus segment where there are two stabilised power supply units of the system. Any increase in this value requires the use of another bus segment via the line isolation device 53ABISO-1.

Technical details

•	Module:	2 DIN modules (35 x 89 x 64.5) mm
•	Protection degree:	IP40 in the dedicated modules
•	Power supply from the 230Vac line:	- Rated voltage: 230Vac
		- Allowed fluctuation: 100Vac ÷ 240Vac
•	Power supply frequency:	50 - 60 Hz
•	Output voltage:	- Rated voltage: 15Vdc
•	Tolerance:	±2%
•	Operating Ambient Temperature Range:	from -10°C to +40°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.

Connections

•	Terminal 1 - 2:	AVEbus line (1 negative – 2 positive)
•	Terminal 3-4:	Power supply from the 230Vac line

Description of the front

	• · · · · · · · · · · · · · · · · · · ·		
Two	Two indicator LEDs can be seen on the front:		
•	Green LED "ON":		
	ON: normal operation		
	OFF: failure or power failure		
•	Red LED "limit":		
	- Flashing: transmission on bus		
	- ON: short circuit or bus overloaded		
	- OFF: normal operation		

53AB-AUX

The 53AB-AUX device is the switching power supply unit of the AVEBus system that is dedicated to the auxiliary power of the peripheral units.

Technical details

•	Module:	2 DIN modules (35 x 90 x 58.5) mm
•	Protection degree:	IP40 in DIN enclosures
•	Power supply from the 230Vac line:	- Rated voltage: 230Vac
		- Allowed fluctuation: 100Vac ÷ 240Vac
•	Power supply frequency:	47 - 63 Hz
•	Output voltage:	12 Vdc
•	Rated voltage:	2000 mA
•	Operating Ambient Temperature Range:	from -30°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.

Connections

	Terminal L-N:	Power supply from the 230Vac line
	Terminal +VV:	AUX line





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53AB-ALI

53AB-AUX



BSA-USB



CVAVEBUS
CVBUS-BUILDING

53AB-ALI

Stabilised power supply of the AVEbus system - extended mains voltage range - 2 DIN

53ARISO-1

Logical line isolator - 1 DIN

53AR-AIIX

Mains voltage power supply with extended range for AVEbus and Touch Screen systems. Adjustable output voltage with potentiometer (12 to 14Vdc). Max current supplied: 2 A 2 DIN modules

53BSA232

AVEbus-RS232 interface - 3 DIN modules

BSA-USB

AVEbus-USB interface (supplied with SFW-BSA software)

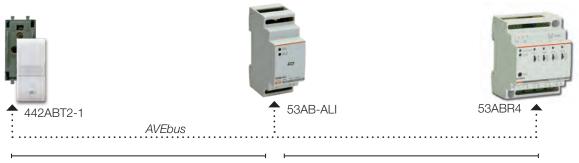
CVAVEBUS

Cable for AVEbus systems, compliant with EU Regulation 305/2011 - Coil 100 m Technical details: 2x2x0.50 mm2 - Eca performance category It allows the connection of all AVEbus devices. It comprises two twisted pairs

CVBUS-BUILDING

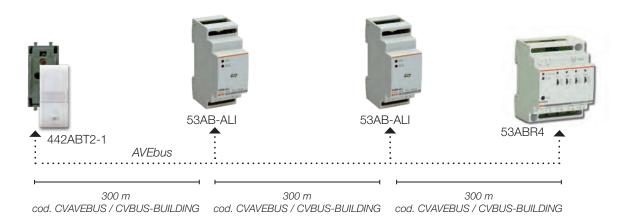
Cable for AVEbus systems, compliant with EU Regulation 305/2011 - Coil 200m Technical details: 4x 0.50 mm2 - Performance category B2ca-S1a-d0 - a1 (HIGH Risk Level) Allows to connect all AVEbus devices, comprising four wires.

FUNCTIONAL DIAGRAM



300 m cod. CVAVEBUS / CVBUS-BUILDING

300 m cod. CVAVEBUS / CVBUS-BUILDING





Power Supply DEVICES and DOMINAPRO ACCESSORIES

LOGICAL LINE ISOLATOR - cod. 53ABISO-1

The device 53ABISO-1 is a bus signal repeater that provides insulation, both logical and electric, between the two home automation segments to which it is connected, and allows to divide the bus into a multi-system structure that can even have multiple levels. Device function is defined by the function chosen during the configuration phase. Three different functions are managed: Isolator and/or signal repeater, Logical level sectioner and router.

Function in Isolator or Repeater mode

The device acts as a galvanic isolator and allows messages to transit as long as their syntax is correct.

Logical level sectioner

The device acts both as galvanic isolator and logical filter, either blocking or allowing only certain messages to pass, depending on how it is programmed. The device has a memory area where it memorises the actuator devices, whose message will be either enabled or disabled for transit, allowing the creation of a group of actuator devices that are common to both home automation segments.

The device acts both as galvanic isolator and as router of messages that transit from the secondary segment (2) to the primary segment (1), increasing its address with the identification of the device 53ABISO-1.

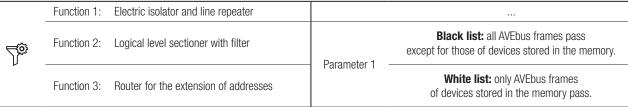
Technical details

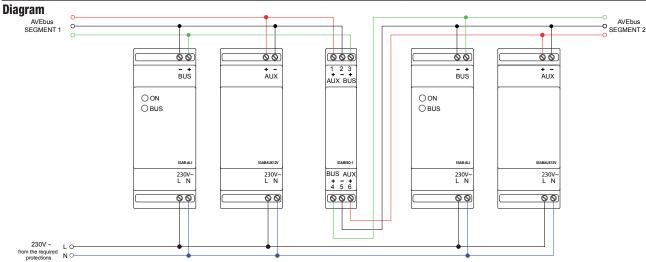
IUU	IIIIIGAI UELAIIS	
•	Module:	1 DIN module (WxHxD) 17.5 x 89 x 64.5 mm
•	Protection degree:	IP40 in the dedicated modules
•	Auxiliary power supply from SELV source:	12Vdc
•	Allowed fluctuation:	10.5Vdc - 14Vdc
•	Absorption at 12Vdc:	Segment 1 - 6.9 mA MAX
		Segment 2 - 7.7 mA MAX
•	Absorption from the AVEbus line:	- With AUX: 0.5 C Only BUS: 7.4 C
		- With AUX: 0.6 C Only BUS: 13.8 C
•	Reference Temp. and Rel. Humidity:	25°C RH 65%
•	Temperature range Operating environment:	from -10°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.

Connections

	Primary bus segment [1]		Secondary bus segment [2]
•	Terminal 1: positive auxiliary of the branch	•	Terminal 4: Positive BUS of the branch [2]
•	Terminal 2: GND of the branch [1]	•	Terminal 5: GND of the branch [2]
•	Terminal 3: Positive BUS of the branch [1]	•	Terminal 6: Positive auxiliary of the branch [2]

Warning: Terminals 2 and 5 are isolated:









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Номе Аптоматіом

OTEL MANAGEM

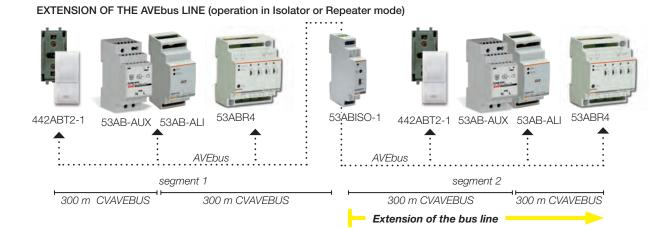
INTRUSION



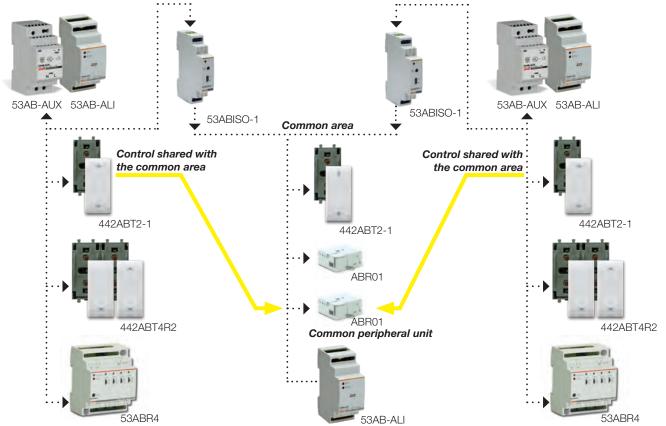
53ABIS0-1

53ABISO-1 Logical line isolator - 1 DIN

FUNCTIONAL DIAGRAM



COMMON PERIPHERAL UNITS BETWEEN THE ISOLATED LINES (operation in Logical level sectioner mode)





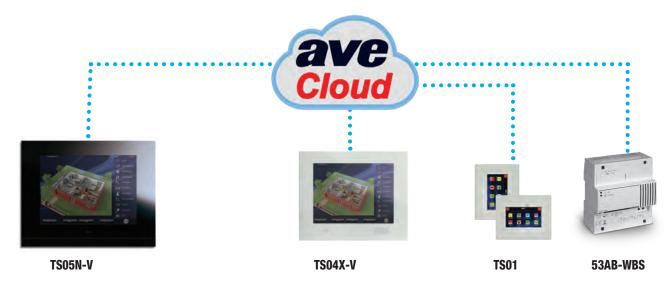
TECHNICAL CATALOGUE System Integration

AVE CLOUD & DOMOTICA IOT

VE OLOOD & DOMOTION TO

AVE cloud

More than just an App, a personal assistant always at your disposal



Make your home smarter with the AVE Cloud App! Interact with the home automation system from your smartphone or tablet, wherever you are and at any time. You can manage every automation and function integrated in the system! Plus: you can also control the alarm. All from a single App.

Smart home: the future is connected with AVE Connect

With DOMINA pro the world of home automation and that of connected objects come together, enhancing the peculiarities of both through AVE Connect. The first real IoT ready home automation system from AVE is born: a totally integrated system for your home, always ready to listen to you and satisfy your technological needs.







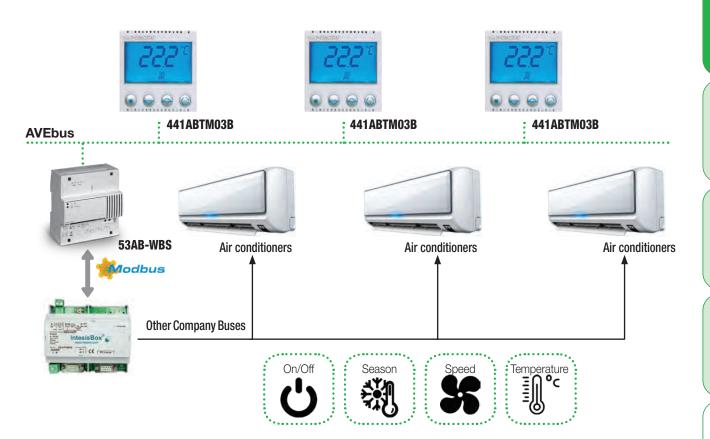
System Integration





AIR CONDITIONING

Integration with Modbus gateway for Air Conditioning control



 $The \ DOMINA^{pro}\ supervisors\ range\ interfaces\ with\ the\ leading\ brands\ used\ for\ Central\ Air\ Conditioning\ by\ using\ the\ Modbus\ standard\ protocol.$

Integration with IR Interface for Air Conditioning control

Warning:

The device must be installed opposite the domestic appliance to be managed; otherwise, the IR extension cable provided must be used with transmitting end attached to the IR receiver of the domestic appliance with dedicated double-sided sticky tape.



441ABTM03B

AVEbus





PPE

Номе Аυтоматіом

HOTEL MANAGEMENT

VIDEO INTERC

ANTI INTRUSI

WIRING DIAGRAMS

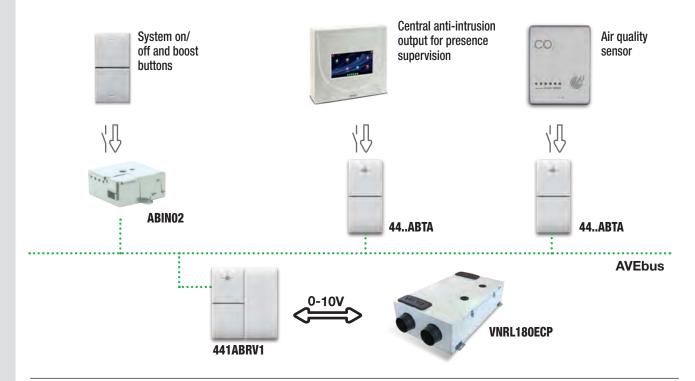


SYSTEM INTEGRATION

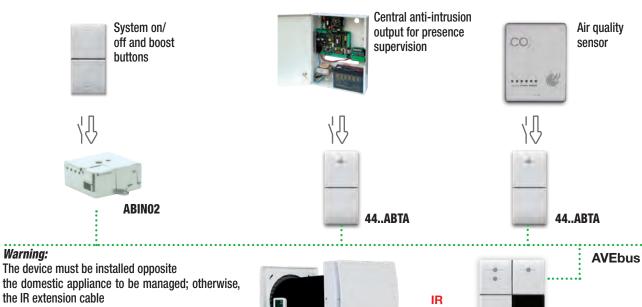
CONTROLLED MECHANICAL VENTILATION (CMV)

Through integration with the new range of AVE DomusAir products, by using CMV (controlled mechanical ventilation), continuous change of air with double flow can be guaranteed with heat recovery, thus allowing to constantly maintain excellent internal air quality, extracting components that are harmful for both the person's health and for the building itself, and producing fresh filtered air. (for more information, see the page on CMV in the relevant section of the Technical Catalogue).

Central CMV with heat recovery - Control with cod. 441ABRV1



Decentralised CMV with "SOLAIR" heat recovery - Control with cod. 44..AB-IRT



the domestic appliance to be managed; otherwise,

provided must be used with transmitting end attached to the IR receiver of the domestic appliance with dedicated double-sided sticky tape.

VNRD150ECP

((((((



441AB-IRT

Home Automation





CENTRAL CMV WITH HEAT RECOVERY - CONTROL WITH COD. 441ABRV1





441ABRV1 442ABT2-1



441ABRV1

Analogue interface with 1-10V output for CMV systems

in combination with other components of the home automation system allows:

- To switch on/off the CMV system
- Timed forcing at maximum speed
- Control depending on user presence
- Sensor management (Air Quality, Humidity and CO2)
- Motor speed configuration (10% 100%)

□ 441ABTA

■ 445ABTA

449ABTA

1-channel transmitter for alarm signals - Domus series - Tekla - 1 module

■ 442ABTA **■ 443ABTA**

1-channel transmitter for alarm signals - Life series - Allumia - 1 module

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

VNRL180ECPN

Central double flow ventilation unit with heat recovery for in-line installation (ceiling or false ceiling) - up to 88% actual efficiency - compact size: only 269 mm high - EC brushless energy saving motors - maximum capacity 209 m3/h - automatic activation of integrated physical bypass - external multi-function control panel with LCD display codes VNRCP1, VNRCP2, VNRCP3 (not provided) - for rooms with max surface area 130 m2 - version Plus



441ABTA





442ABTA

443ABTA



VNRL180ECPN

Decentralised CMV with "SOLAIR" heat recovery - Control with cod. 44..AB-IRT





441AB-IRT

445AB-IRT

■ 445AB-IRT

Infra-red transmitter for interfacing with air conditioning systems - Domus series - Tekla 2 modules

449AB-IRT

■ 442AB-IRT **■ 443AB-IRT**

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

□ 441AB-IRT

Decentralised heat recovery unit with single alternate flow Ø158 mm - internal stylish front cover - provided with infrared remote control - up to 82% thermal efficiency - EC brushless motor for energy saving, provided with ball bearing (long life) - maximum rate 60 m3/h - multi-speed, for continuous running - for areas up to 45 m2- for installation in noble premises like bedrooms and living rooms - Plus version - SOLITAIR



VNRD150ECP







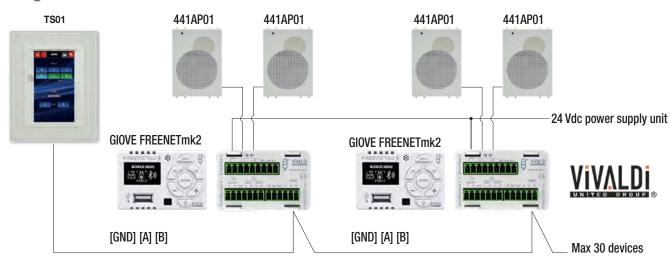
HOTEL MANAGEMENT

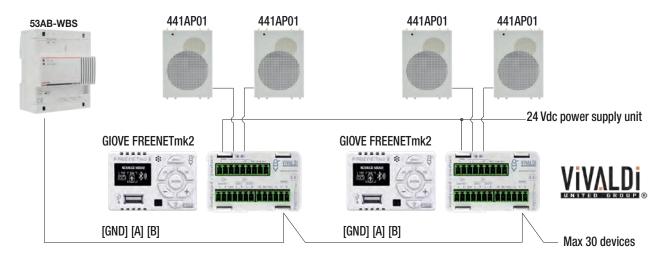


System Integration

SOUND SYSTEM

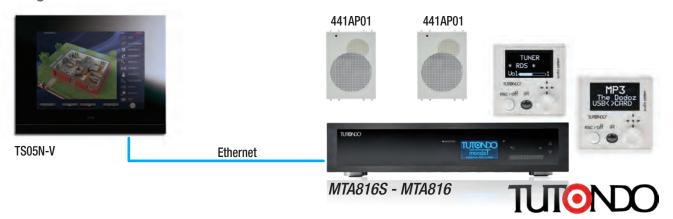
Integration with Vivaldi sound devices





Functions: ON, OFF - Volume Control and MUTE - High and Low tone control - Source change TUNER, USB, AUX-IN, B.T. and MIC - Change of radio station frequency (+/- 0.1Hz) - Change of USB folder and MP3 File.

Integration with Tutondo sound devices



Functions: ON, OFF - Volume Control and MUTE - High and Low tone control - Source change TUNER, USB, AUX-IN, B.T. - Change of radio station frequency - Change of USB folder and MP3 File.



4.0

Номе Аυтоматіом

HOTEL MANAGEMENT

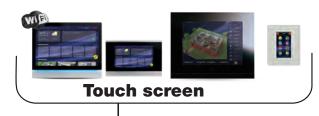
VIDEO INTERCOM

ANTI INTRUSION



ANTI-INTRUSION ALARM SYSTEM





















Anti-Intrusion
Control units











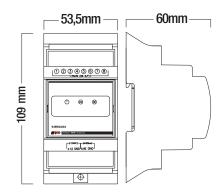
Wired detectors



SYSTEM INTEGRATION

HARDWARE INTERFACE RS-232 - AVEBUS - cod. 53BSA232

Product 53BSA232 is an interface allowing a personal computer (PC) to be connected to the home automation bus used by devices of the Domina series (AVEbus) by means of a serial port RS-232.



Technical details

1001	illiodi detalis	
•	Module:	3 DIN modules (53.5 w x 109 h x 60 d) mm
•	Protection degree:	IP30
•	Auxiliary power supply from SELV source:	12Vdc
•	Allowed fluctuation:	+12VDC ±20%
•	Absorption at 12Vdc:	< 25mA at +12VDC
•	Reference Temp. and Rel. Humidity:	25°C RH 65%
•	Temperature range Operating environment: from 0°	C to +40°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.

Connections

•	Terminal 1:	Data Carrier Detect (DCD) [pin 1 RS232]	•	Terminal 5:	Signal Ground (GND) [pin 5 RS232]
•	Terminal 2:	Received Data (RX) [pin 2 RS232]	•	Terminal 6:	Data Set Ready (DSR) [pin 6 RS232]
•	Terminal 3:	Transmitted Data (TX) [pin 3 RS232]	•	Terminal 7:	Request To Send (RTS) [pin 7 RS232]
•	Terminal 4:	Data terminal Ready (DTR) [pin 4 RS232]	•	Terminal 8:	Clear To Send (CTS) [pin 8 RS232]
•	"AVE" Terminal:	Positive AVEBUS	•	Terminal "+12V":	Positive 12Vdc power supply
•	Terminal "GND":	Negative AVEbus	•	Terminal "GND":	negative 12VDC power supply

Warning: Reference ground between RS232 and AVEBus are uncoupled.

Description of the front

Sev	eral optical alerts can be seen on the front:	
•	Green LED: Powered interface	(POWER)
•	Yellow LED: Communication on AVEBus	(TRAFFIC)
•	Red LED: Collision detected	(COLLISION).
		·

Warning: After a collision is detected, the interface automatically prevents the transmission of messages from PC to AVEBus until it is reset through the management software.



Technical Details

Home Automation





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HOME AUTOMATION

IOTEL MANAGEMENT

VIDEO INTERC

53BSA232





53BSA232

TECHNICAL INFORMATION - INTERFACE MANAGEMENT THROUGH A PC

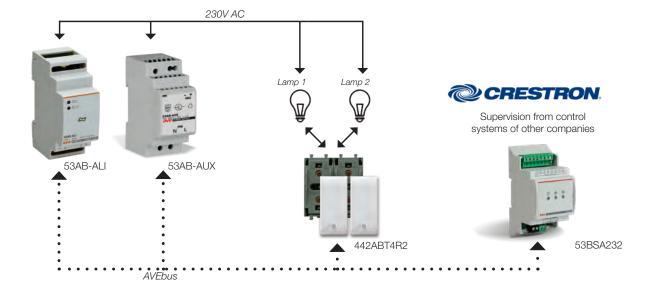
To correctly "control" the home automation receivers from the PC (e.g., 441ABR1) or to "intercept" the controls sent by the transmitters (e.g., 441ABR1) the serial door that is physically connected to 53BSA232 must be opened by setting the following parameters:

• BaudRate 4800 • DataBits 8 • DiscardNull False • DtrEnable True • Handshake None • Parity Odd • RtsEnable True • StopBits One
For the main function of AVEBus, the reception driver is always active; hence it is possible to automatically reread the message sent and/
or to receive the data transmitted by the various devices connected on the home automation bus.

During normal function of the interface five of the six typical control signals of a serial RS-232 are used:

- DTR (from PC to AVEBus) Control line usually maintained in its active status (True) and used to reset the condition
 of collision and re-enable the transmission driver of the interface. To perform this operation, this line must be placed
 in an inactive status (False) for 200ms and then restored to the active status (True). The RESET of the collision detection circuit
 can be visually observed by switching off the red LED of the interface 53BSA232.
- RTS (from PC to AVEBus) Control line not used
- CTS (from AVEBus to PC) Control line that indicates, if it is in an inactive status (False), that a transmission is active on AVEbus. This condition can be seen on the interface 53BSA232 by means of the flashing yellow LED. For correct management of the protocol, a new transmission cannot commence if at least 22 ms have not elapsed from the moment this line was restored to its active status (True).
- DSR (from AVEBus to PC) Control line that indicates, if it is in an inactive status (False), that a collision has been detected for which the transmission driver was disabled. This condition can be seen when the red LED lights up on interface 53BSA232.
- DCD (from AVEBus to PC) Always in the active status (True). It is used jointly with the RI line to detect the presence
 of the interface.
- RI (from AVEBus to PC) Always in the inactive status (False). It is used jointly with the DCD line to detect the presence
 of the interface.

FUNCTIONAL DIAGRAM





CALL SYSTEM OVERVIEW

Supervision and Monitoring

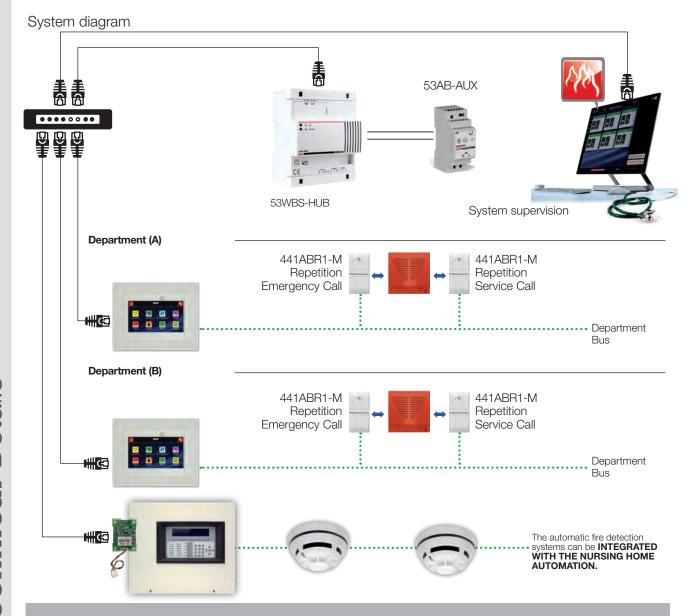
The system offers the possibility of central supervision for the entire structure, however allowing each department's autonomous function (Distributed Logic Technology).

Hence, the area is monitored and managed by a local supervisor that constantly checks the correct operation of the home automation modules connected to it, reporting any anomalies and/or calls of the same both acoustically and visually (with an internal buzzer and spontaneously switching on its display).

It also replicates this information to the domotic module for Optical and Sound alerts (actuators and relevant alerts). These alerts must be recognised and silenced with the appropriate 'manoeuvre' implemented on the local display.

The failure check, call signals and their recognition, silencing and reactivation, if required, due to failed recognition are submitted to the Central Supervisor who, besides managing and displaying them, appropriately records them in the general log.

With the Central Supervisor's dedicated authorisation, a Department Supervisor can also replicate the signals of other departments, appropriately identifying them as belonging to the department of origin.

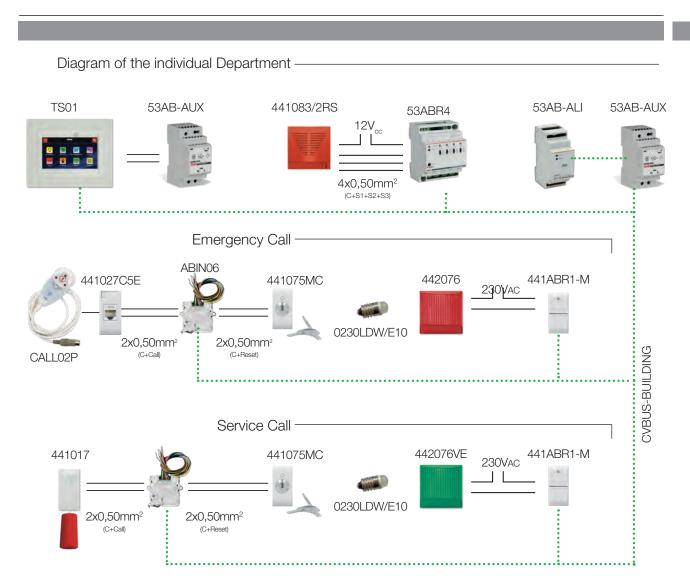


The system provides the possibility to choose different types of ring tones, to adjust the sound intensity and to adjust the duration of the flashing.

domina Professional Home Automatica



HOME AUTOMATION FOR EMERGENCY CALL SYSTEM



(*) Note: maximum distance 10 m

Supervision

- Real time monitoring of emergency/assistance calls
- User interface with graphic maps to identify the location of the call
- Record of events and list of calls
- Device failure signal and/or absence of communication between modules

Emergency Call

The guest makes an emergency call by pressing the button. The system activates the optical and acoustic signals in the corridor and the optical signal in reception corresponding to the caller's number. The three tone ring tone produces a flashing light signal and a special tone for emergencies.

Service Call

The guest makes an emergency call by pushing the button. The system activates the optical and acoustic signals in the corridor and the optical signal in reception corresponding to the caller's number is displayed on the home automation supervisor. The three tone ring tone produces a continuous optical signal and a special tone for service calls (different to the tone used for emergency calls. A green optical signal is also activated.

Reset

When the assistant is in the guest's room he/she resets the call using the button located in the room, cancelling activation of the optical and acoustic signals

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HOTEL MANAGEMENT

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WIRING DIAGRAMS



TECHNICAL CATALOGUE DOMINAPIO SUPERVISION DEVICES

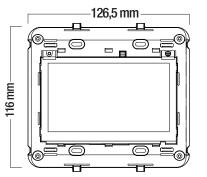
DOMINAPRO TOUCH SCREEN WITH 4,3"DISPLAY - cod. TS01

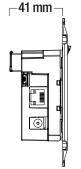
The TS01 device is a Touch Screen supervisor, which allows users to control their home automation system through a stylised graphical user interface featuring graphic icons and interactive menus. In addition to the Supervisor function, it integrates the function of ambient Thermostat by exploiting the possibility of being connected to an external temperature probe. The TS01 Touch Screen allows to manage the home automation system locally and remotely by appropriately setting up the Ethernet network, the home automation system, performing the functions of "Multi-Zone Chronothermostat", "Scenario Control Switch", "Time Scheduler", "Programmable Logic Management", "Lighting Control", "Shutter Control", "Anti-Intrusion Control" and "Load Supervision Control". It can also generate browser accessible Web pages, which graphically depict the users' home automation system by dividing it into rooms and functions, thus allowing their supervision and control.

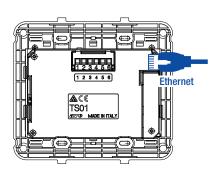
The device can be installed either vertically or horizontally (the technical menu of the device contains the icon that allows to change the orientation of user graphics). The device is installed using a flush-mounted box BL02P or cod. BL02CG (the dimensions are given below).

Regarding the electrical wiring, the device needs the connection to AVEbus and, depending on the functions, also an Ethernet connection (using the provided small RJ45 connector) and a connection to the external temperature probe 44..SO-NTC using a 2x0.50 mm2 cable (use ducts that are separated from the power and segments not exceeding 10 m).

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







Technical details

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

Connoctions

iliections	
Terminal 1:	Positive BUS
Terminal 2:	Negative BUS, Negative power supply and ground references for the NTC sensor
Terminal 3:	RS485 (A) – Integration between systems
Terminal 4:	RS485 (B) – Integration between systems
Terminal 5:	Positive 12Vdc power supply
Terminal 6:	Input temperature sensor NTC 10K B=3380K AVE 44SO-NTC)
ETH:	LAN network connector (for space-saving reasons, the connector supplied as
	standard must be used)
	Terminal 1: Terminal 2: Terminal 3: Terminal 4: Terminal 5: Terminal 6:

DOMINA pro supervisors manage a maximum of 100 maps, 50 scenarios with a maximum of 300 devices. Consult the "Installation Provisions" at www.ave.it in the section TECHNICAL MANUALS. The remote assistance service is available throughout the product warranty provided that an Internet connection is ensured. Using a dedicated power supply line (UPS) is recommended. Moreover, the user should regularly check for software updates to have the best performance and ensure correct function. Updates can be found through the technical assistance network.





HOME AUTOMATION FOR EMERGENCY CALL SYSTEM

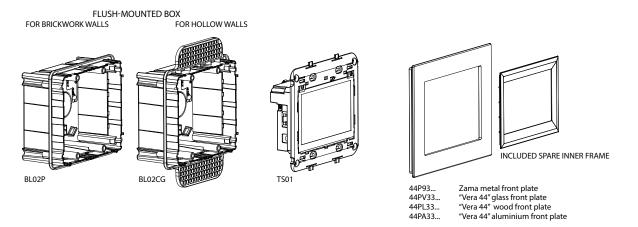
TS01

TS01

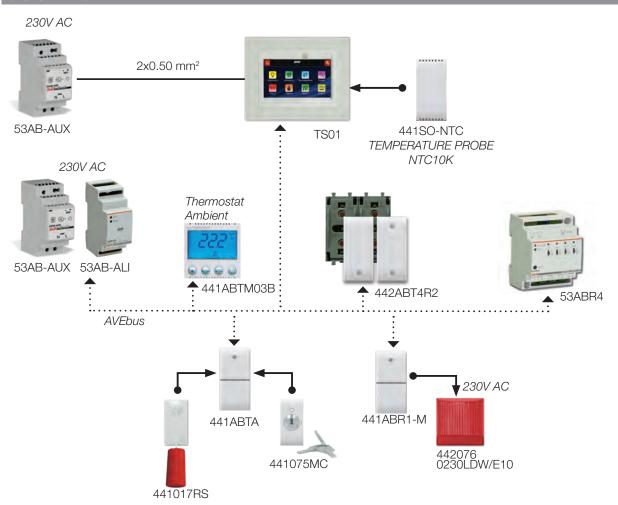
DOMINA^{pro} Touch Screen with 4.3" colour display and user interface with icon layout. Vertical or horizontal installation depending on the position of the box BL02...

- Power supply: 12Vdc (Max. 0.5A)
- Operating Room Temperature: 0°C 40°C
- Integrated home automation Web Server
- Combined with the temperature probe, it also works as a chronothermostat.

TECHNICAL INFORMATION



FUNCTIONAL DIAGRAM



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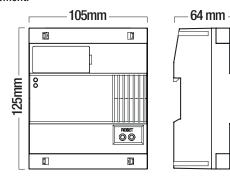


SYSTEM AND DEPARTMENT SUPERVISION DEVICES

WEB SERVER HUB FOR TECHNOLOGICAL SYSTEMS - COD. 53WBS-HUB

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

In the Home Automation system it allows, with a single access point, the general supervision of all supervisors in Server mode situated on the various AVEbus branches, implementing general monitoring of the Calling System. In this system, every area or department is independent as it is supervised by a Touch Screen cod. TS01 "server", while the entire building is supervised from a central point by using a Web browser that is connected to the technological Hub cod. 53WBS-HUB. The graphic Web interface generated by it displays events that occur inside the facility. The user can consult the history and combine one or more areas of the building so that the local supervisor of an area sends alerts of the calls of others that are not supervised at that moment.



The Web interface also allows access to the graphic interface of supervisors distributed in the facility in order to allow its remote management, thus exploiting all functions of each supervisor: "Multi-zone Chronothermostat", "Scenario Control Switch", "Time Scheduler", "Programmable Logic Management", "Lighting Control", "Shutter Control", "Anti-Intrusion Control" and "Load Supervision Control". The visible Web pages are the ones generated by the supervisors, which graphically depict the users' home automation system by dividing it into rooms and functions, thus allowing their supervision and control.

Technical details

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

Connections

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

Warnings

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











HOME AUTOMATION FOR EMERGENCY CALL SYSTEM

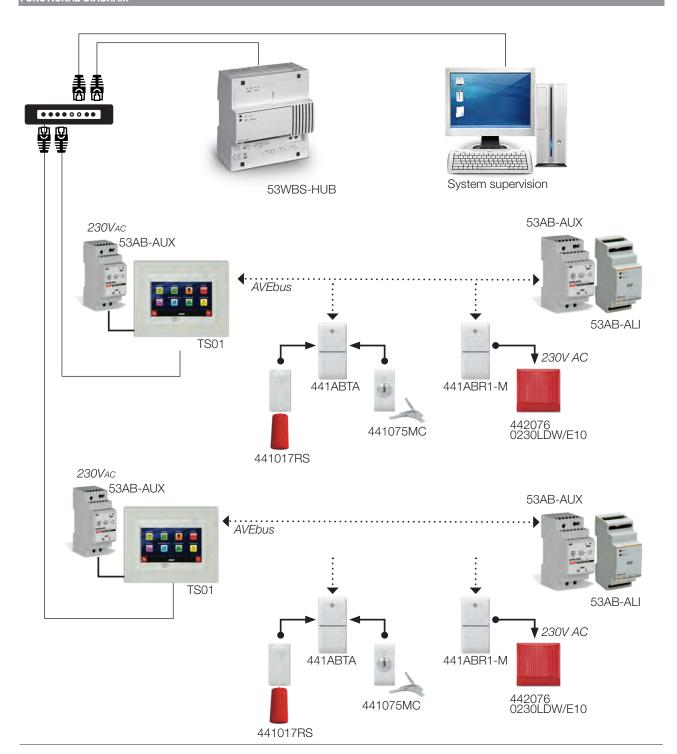
53WBS-HUB

53WBS-HUB

Web Server device with Hub function and Concentrator for special technological systems. It allows to centralise the information and to export the graphic client of the Touch Screens cod.TS01 to the WebApp, which can be used by devices that have a Web browser, thus allowing remote control of functions and supervision.

- Power supply: 12Vdc (Max. 12Vdc (Max. 250mA)
- Operating Room Temperature: 0°C 40°C
- LAN Connection for other online devices.
- Made in monoblock for DIN installation
- 6 DIN modules

FUNCTIONAL DIAGRAM



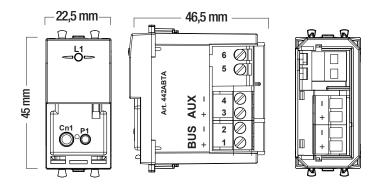
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TECHNICAL CATALOGUE CALLING SYSTEM DEVICES

TRANSMITTER FOR ALARM SIGNALS – COD. 44..ABTA

The 44..ABTA device is a 1-channel alarm transmitter with two inputs, one (IN input) is always active and the second one (RESET) can be used only for functions that require local recognition of an alarm, if any. This device monitors the IN input status and sends an alarm message when the status changes (for example a "bathroom call"), allowing to control a lighting actuator ..ABRx (for optical/luminous activation, if any).



Technical details

•	Module:	1 System 44 module (22.5 w x 45 h x 46.5 d) mm
•	Protection degree:	IP41 if installed in the respective flush-mounted box.
•	Reference Temp. and Rel. Humidity:	25°C RH 65%
•	Temperature range Operating environment:	from -10°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.
•	Auxiliary power supply	- Rated voltage 12Vac/dc
		- Allowed fluctuation: 10.5V - 14V
		- Absorption at 12Vdc: 2.2 mA MAX
•	Absorption from the AVEbus line:	- With AUX line: 0.3 C
		- Only AVEbus line: 2.7 C

Connections

Terminal 1:	positive BUS
Terminal 2:	GND
Terminal 3:	positive auxiliary power
Terminal 4:	negative auxiliary power
Terminal 5:	input alarm
Terminal 6:	input alarm reset
	Terminal 2: Terminal 3: Terminal 4: Terminal 5:

Description of the front

On the front there is an optical indicator for device function and programming status:

- Amber LED, indicates the status of the device
 - Fast flashing, device being programmed
 - OFF, normal function

Function Table

		Input N.O.		Input N.C.
	Function 1:	BINARY INPUT		ND
((•)) ALARM	Function 2:	without memory, sends the ALARM signal	Function 7:	without memory, sends the ALARM signal
	Function 3:	without memory, sends the RUN signal	Function 8:	without memory, sends the RUN signal
>'	Function 4:	without memory, sends the STOP signal	Function 9:	without memory, sends the STOP signal
$\lambda \lambda$	Function 5:	without memory, sends the STEP signal	Function 10:	without memory, sends the STEP signal
	Function 6:	without memory, sends the RUN + STOP signal	Function 11:	without memory, sends the RUN + STOP signal
((•)) ALARM	Function 12:	with memory, sends the ALARM signal	Function 17:	with memory, sends the ALARM signal
	Function 13:	with memory, sends the RUN signal	Function 18:	with memory, sends the RUN signal
とく	Function 14:	with memory, sends the STOP signal	Function 19:	with memory, sends the STOP signal
7,7	Function 15:	with memory, sends the STEP signal	Function 20:	with memory, sends the STEP signal
	Function 16:	with memory, sends the RUN + STOP signal	Function 21:	with memory, sends the RUN + STOP signal



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HOME AUTOMATION FOR EMERGENCY CALL SYSTEM











HOME AUTOMATION CALL MODULE

□ 441ABTA **■** 445ABTA **■** 449ABTA

1-channel transmitter for alarm signals - Domus series - Tekla - Class - 1 module

■ 442ABTA ■ 443ABTA

1-channel transmitter for alarm signals - Life series - Allumia - 1 module

□ 441075 **■** 445075 **■** 449075

2P NO 10A button with key - random key encoding - supplied with 2 keys key removable only in the open position - Domus series - Tekla - 1 module

■ 442075 ■ 443075

2P NO 10A button with key - random key encoding - supplied with 2 keys key removable only in the open position - Life series - Allumia - 1 module

□ 441075MC

2P NO 10A button with unified key - key encoding "511" - supplied with 2 keys - key removable only in the open position - 1 module

□ 441017RS

1P NO+NC 10A cord operated push-button - insulating material cord 1,5 m with red knob - 1 module

442025RS/2

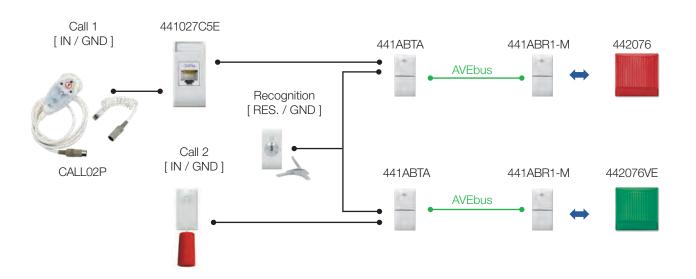
1P NO+NC 10A large emergency lightable button - red - 2 modules

CALL02P

Keypad with two buttons that can be used for call management and activation of a light device. The device has a 2m long connection cable (headed with a 7-pole male DIN connector) and is supplied with an extension cable with "tear-proof" function with 7-pole DIN female connection and RJ45 "flying" connector. Equipped with Braille coding (call button area) and three red LEDs for product identification in the dark. 12Vdc power supply; Outgoing contacts: call n.c. - n.1 button n.o.

CALL03P

Keypad with three buttons that can be used for call management and activation of a light device. The device has a 2m long connection cable (headed with a 7-pole male DIN connector) and is supplied with an extension cable with "tear-proof" function with 7-pole DIN female connection and RJ45 "flying" connector. Equipped with Braille coding (call button area) and three red LEDs for product identification in the dark. 12Vdc power supply; Outgoing contacts: call n.c. - n.2 n.o. buttons

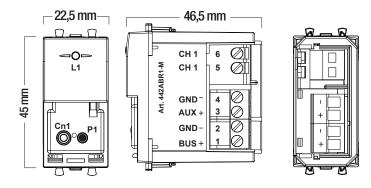




TECHNICAL CATALOGUE **CALLING SYSTEM DEVICES**

1-CHANNEL LIGHTING ACTUATOR - cod. 44..ABR1-M

The 44..ABR1-M device is a 1-channel actuator that is able to control electric loads by means of volt free contacts. It has a status memory that can restore the output, upon restoration of the mains power.



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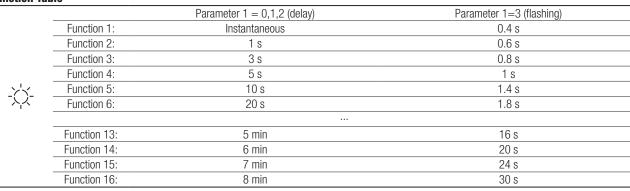
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•	Module:	1 System 44 module (22.5 w x 45 h x 46.5 d) mm
•	Protection degree:	IP41 if completed with front plate and installed in the corresponding
		flush-mounted box.
•	Reference Temp. and Rel. Humidity:	25°C RH 65%
•	Temperature range Operating environment:	from -10°C to +50°C
•	Maximum Relative Humidity:	90% at 35°C
•	Max. Height:	2000 m a.s.l.
•	Auxiliary power supply	- Rated voltage: 12Vac/dc
		- Allowed fluctuation: 10.5V - 14V
		- Absorption at 12Vdc: 3.4 mA MAX
•	Absorption from the AVEbus line:	- With AUX line: 0.3 C
		- Only AVEbus line: 4.6 C
Con	nections	
Con •	nections Terminal 1:	positive BUS
<u>Con</u>		GND
<u>Con</u>	Terminal 1:	•
• • •	Terminal 1: Terminal 2: Terminal 3: Terminal 4:	GND positive auxiliary power negative auxiliary power
• • •	Terminal 1: Terminal 2: Terminal 3:	GND positive auxiliary power negative auxiliary power relay contact
<u>Con</u>	Terminal 1: Terminal 2: Terminal 3: Terminal 4:	GND positive auxiliary power negative auxiliary power
•	Terminal 1: Terminal 2: Terminal 3: Terminal 4: Terminal 5:	GND positive auxiliary power negative auxiliary power relay contact
•	Terminal 1: Terminal 2: Terminal 3: Terminal 4: Terminal 5: Terminal 6:	GND positive auxiliary power negative auxiliary power relay contact
•	Terminal 1: Terminal 2: Terminal 3: Terminal 4: Terminal 5: Terminal 6: racteristics of controllable electric load Ohmic load (cosφ1): Incandescent load:	GND positive auxiliary power negative auxiliary power relay contact relay contact
•	Terminal 1: Terminal 2: Terminal 3: Terminal 4: Terminal 5: Terminal 6: racteristics of controllable electric load Ohmic load (cosφ1):	GND positive auxiliary power negative auxiliary power relay contact relay contact 10A at 230Vac

Description of the front

On the front there is an optical indicator for device function and programming status:

- Amber LED, indicates the status of the device
 - Fast flashing, device being programmed
 - Slow flashing, the relay is about to change status (actuation delay)
 - ON, relay contact of the receiver closed
 - OFF, relay contact of the receiver open

Function Table









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HOTEL MANAGEMENT

HOME AUTOMATION FOR EMERGENCY CALL SYSTEM



445ABR1-M 441ABR1-M

449ABR1-M □ 441ABR1-M ■ 445ABR1-M

1-channel actuator with memory status upon restoration of the mains power - 10A resistive or 4A incandescent lamps - 4A $COS\phi$ 0.6 - Domus series - Tekla - Class - 1 module

■ 442ABR1-M **■ 443ABR1-M**

1-channel actuator with memory status upon restoration of the mains power - 10A resistive **449ABR1-M** or 4A incandescent lamps - 4A $COS\phi$ 0.6 - Life series - Allumia - 1 module

442076VE

Prominent indicator light (outside door) with green diffuser - for E10 10x28 mm 230V~ 3W max lamps - 2 modules

Prominent indicator light (outside door) with red diffuser - for E10 10x28 mm 230V~ 3W max lamps - 2 modules

441083/2RS

12Vdc triple tone sounders for calling systems. Domus series 2 modules red colour - You can select among three different sounds - front adjustment for sound intensity - front LED





443ABR1-M

442ABR1-M



442076VE

441083/2RS

FUNCTIONAL DIAGRAM

