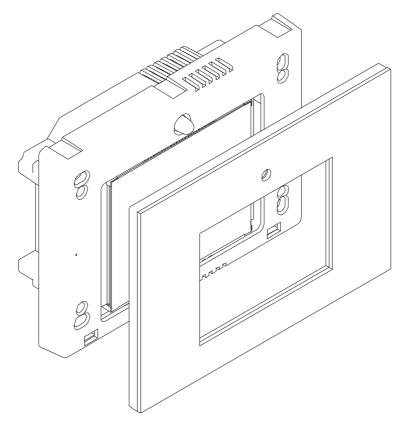


aSmart is a home management device designed to satisfy the most common home automation and control needs. According to its integration philosophy, both its menu and installation can be easily managed. aSmart offers a backlit touch screen provided with a convenient touch-screen interface to make it easier to use. aS.1001 is a model whose features are very appreciated in the context of energy saving as for instance: lighting management, heating/cooling and the possibility to monitor the power consumptions and the connection time of the heating/cooling. This document is intended to guide installer in pre-installation tasks and a satisfactory installation of the product.





RECOMMENDATIONS

The suggestions below will help you to protect your warranty coverage:

- Please read all the operation instructions before using aSmart.
- aSmart must be installed indoors.
- Keep this device away from moisture.
- Never use a hard or sharp object to operate the touch screen.
- Use a damp cloth to clean the screen and the frame; do not use any chemical, solvent or detergent.
- Prevent direct solar radiation incidence, proximity of TVs, lamps, fireplaces, heating pipes and in general any other source of heat.
- Avoid exposure to electromagnetic fields.

GUARANTEE

This guarantee shall only be valid if it is correctly completed, The SELLER STAMP and DATE OF SALE are essential. Two-year guarantee, to be counted from the date of sale, against all operational manufacturing or material defects. The guarantee shall be considered voided in any of the following circumstances taking place:

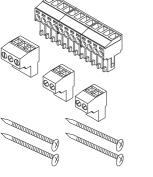
- If the guarantee certificate is not duly completed or its data are manipulated.
- If the equipment has been used improperly and not in accordance with the instructions for use.
- If the equipment has been disassembled or manipulated by persons other than authorized technical service.
- If the fault was caused by knocks or falls, etc..
- If the equipment has been connected to a voltage other than that indicated in the installation manual.

The guarantee does not include repairs for faults occurring as a result of causes not attributable to AVANZA ENGINEERING, such as fires, explosions, floods, lightening or similar events. In addition, the statutory rights of the guarantee holder are not affected.

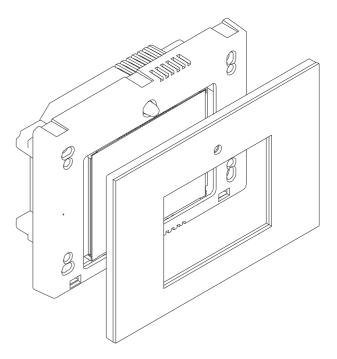
BOX CONTENT

aSmart home management device.

- 1 Current sensor.
- 1 Terminal block, plug-in, 3-way.
- 2 Terminal blocks, plug-in, 2- way.
- 1 Terminal block, plug-in, 12-way
- 1 Beautifying frame.
- 4 Fastening screws for fixing the flush-mounted box
- 1 Installation guide.
- 1 User guide.









Installation Manual

PREINSTALLATION

aSmart pre-installation, envisages the flush mounted box in-wall installation.

We recommend placing aSmart by the exit door and at a height of approximately 1.40m.

At this point aSmart can be handled comfortably and it is located at the ideal viewing angle.

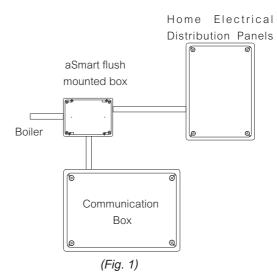
It will be necessary to use corrugated tubes of 20 mm diameter to communicate the flush mounted box with the home electrical distribution panels, the communication box, the boiler or the heating/cooling system of the house.

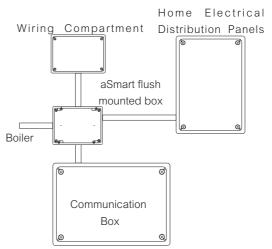
In the table below is shown the relation between tube diameter, cables section and number of conductors.

In Figures 1 and 2 are schematically shown two ways of communicating the boxes in the pre-installation, in order to make it easier the later installation of cables and engines.

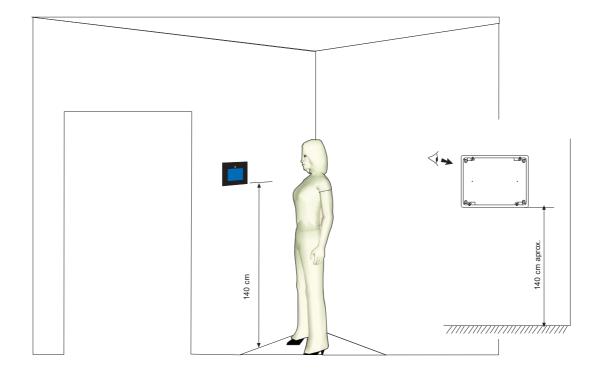
Figure 1 is the simplest, which is proposed for basic model. In Figure 2 has been considered an additional wiring compartment which will be really useful in the event that the installation provides additional optional sensors.

Conductor cross sections (mm ²)		Tubes ex	tternal diar	meter (mm	
1,5	12	12	16	16	16
2,5	12	12	16	16	20
4	12	16	20	20	20
6	12	16	20	20	25
10	16	20	25	32	32





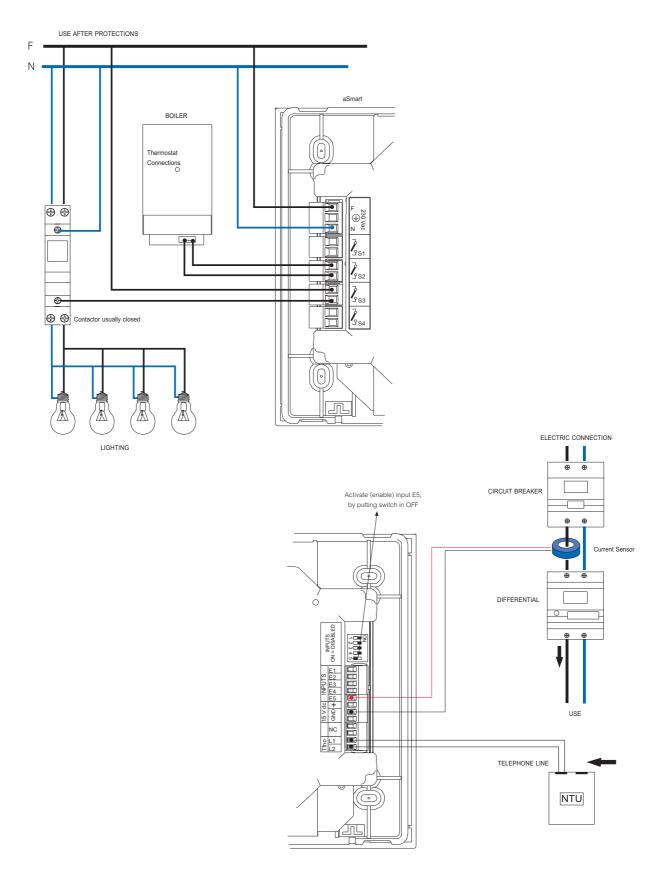






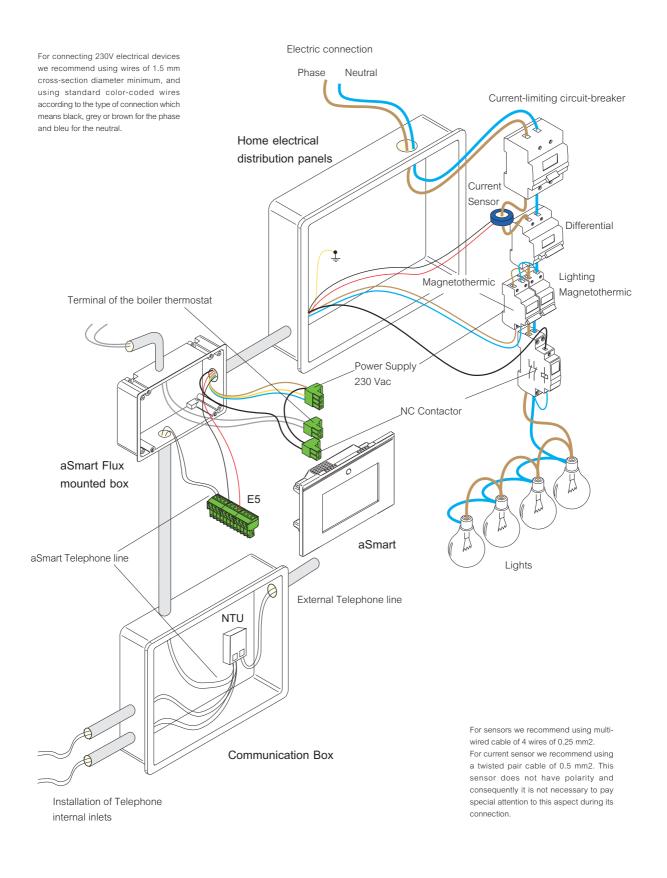
Installation Manual

INSTALLATION DIAGRAM





aS.1001 WIRING



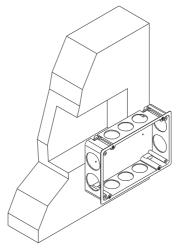
Installation Manual

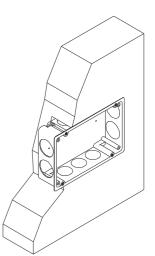
INSTALLATION SEQUENCE



We will place the flush-mounted box at a height of approximately 1.40 m from the ground.

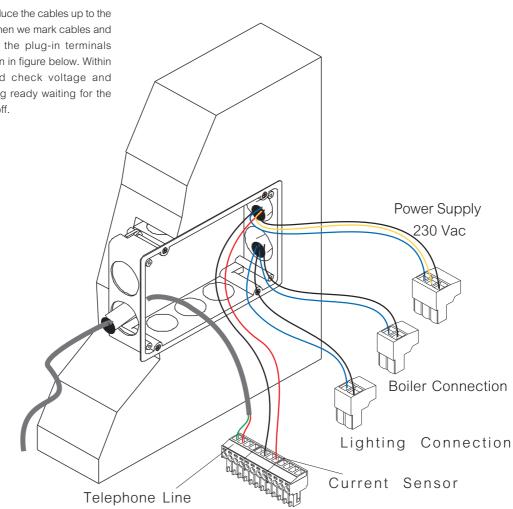
The dimensions of the box are: 220 mm x 150 mm x 52mm





Step 2

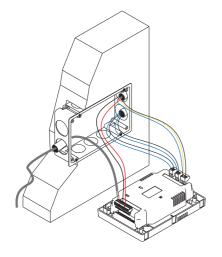
We proceed to introduce the cables up to the flux mounted box. Then we mark cables and connect them into the plug-in terminals provided as is shown in figure below. Within this step we could check voltage and continuity, remaining ready waiting for the wall to be rounded off.

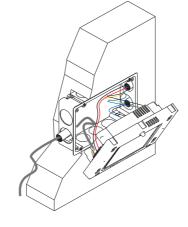


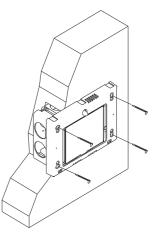
INSTALLATION SEQUENCE



We proceed to connect the terminals to aSmart home management device as indicated in Figure of installation. Then we arrange the wires, and after that we place the device within the flush mounting box and screw them.

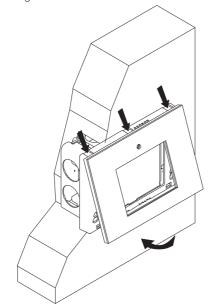


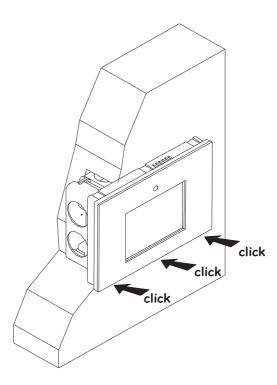




Step 4

Once the device has been screwed, we place the beautifying frame at the top of the aSmart and we push down until hearing a "click" sound, as indicated in the pictures on the right.

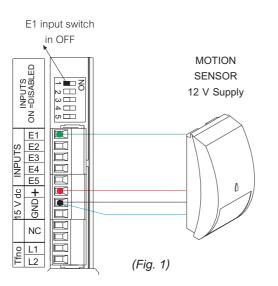


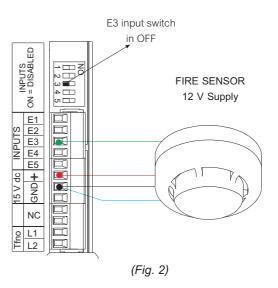


INSTALLATION OF ADITIONAL SENSORS (optional)

aSmart is fitted with a motion sensor and a fire sensor. Many times the intrusion and fire alarms only require of these sensors to work properly.

aSmart makes it possible to install additional motion and fire sensors to protect other zones if necessary. Installation is shown in figures 1 and 2.

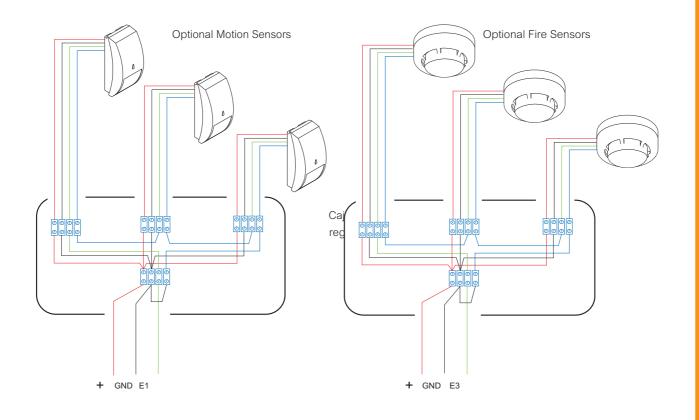




In figures below are shown some installation examples when there are motion and fire additional sensors. aSmart source of electricity makes it possible to supply these external sensors up to a maximum of 6.

On this purporse it will be necessary to know the power consumption of the sensors to be installed to avoid exceeding the maximum supply current provided by aSmart source of electricity (150 mA).

In case of doubt we recommend supplying the sensors with an external source of electricity.



CONFIGURATIONS

aSmart has two possible operation modes. When aSmart is put into initial operation it will be configured according to the installation type chosen. Once installed aSmart device must be configured according to the CONFIGURATION SEQUENCE instructions.

The 2 types of configuration which correspond with two different operating modes, described next:

CONFIGURATION BC (Thermostat)

By setting this configuration user will control a heating/cooling system with temperature management. aSmart works as a thermostat.

It has three operation modes: MANUAL, AUTOMATIC and OFF. In Manual Mode user selects the set point temperature. The system will operate continuously until room temperature rises above the set point temperature. Once the temperature drops below the set point temperature, the device will operate again. In Automatic Mode user selects up to 3 on-off daily cycles with their set point temperature and in each of these cycles device works exactly the same way as on the manual mode. On this mode an anti-freeze set point can also be set. This anti-freeze set point forces the heating system to turn on when it detects an extremely cold temperature below this set point temperature being out of cycle.

CONFIGURATION BB (ON-OFF)

By setting this configuration user will control a heating/cooling system without temperature management, it works as a switch. It has the same operation modes: MANUAL, AUTOMATIC and OFF.

On the manual mode, system will be continuously operating, and on the automatic mode it will operate according to the cycles selected by user.

CONFIGURATION BC (Thermostat): is the original factory default configuration

CONFIGURATION SEQUENCE

					ESC
	1	2	3		
	4	5	6		
	7	8	9		
\Box	P	0	40		
. 8888888888888					

1.- Press button on the home screen. The screen phone comes up..



- 3.- The touch screen version comes up, we will see the configuration chosen: BC or BB.
- 4.- It can be changed in the same way at any moment

TECNICAL DATA

FEATURES	TERMINALS	DESCRIPTION				
POWER SUPPLY INPUT						
	F (Phase)					
Voltage of power supply	N (Neutral)	230 Vac 50Hz (127 Vac 60Hz available upon request)				
	(Ground)	Consumption: < 40mA - 9W				
EXTERNAL SENSORS INPUTS						
	E1 (Input 1)	* Intrusion Sensors in closed loop with GND				
	E2 (Input 2)	Not Implemented. Switch to On				
Inputs	E3 (Input 3)	* Fire Sensors in closed loop with GND				
	E4 (Input 4)	Not Implemented. Switch to On				
	E5 (Input 5)	Not Implemented. Switch to On				
VOLTAGE OF THE POWER SUPPLY OUTLET TO EXTERNAL SENSORS						
	(+) Positive	15 Vcc Positive with charge (Max. 150mA)				
Power source outlet	GND	In case of power outage the internal battery will keep supplying this 15 V				
OUTLETS						
	S1 (Outlet 1)	Not used				
NA Potential-free contacts relays	S2 (Outlet 2)	Heating/Cooling control. Maximum 16A to 230 ca				
	S3 (Outlet 3)	Lighting control. Maximum 16A to 230 ca				
	S4 (Outlet 4)	Not used				
DIMENSIONS						
Width - height - depth (mm)	224mm x 155 mm x 61,5 mm					
Installed	224mm x 155 mm x 27mm					
OPERATION TEMPERATURE LEVEL						
Home Temperature	from -7°C to 50°C					

avanza

Pamplona - SPAIN Tel. +34 948 25 84 24 www.avanzaengineering.com info@avanzaengineering.com