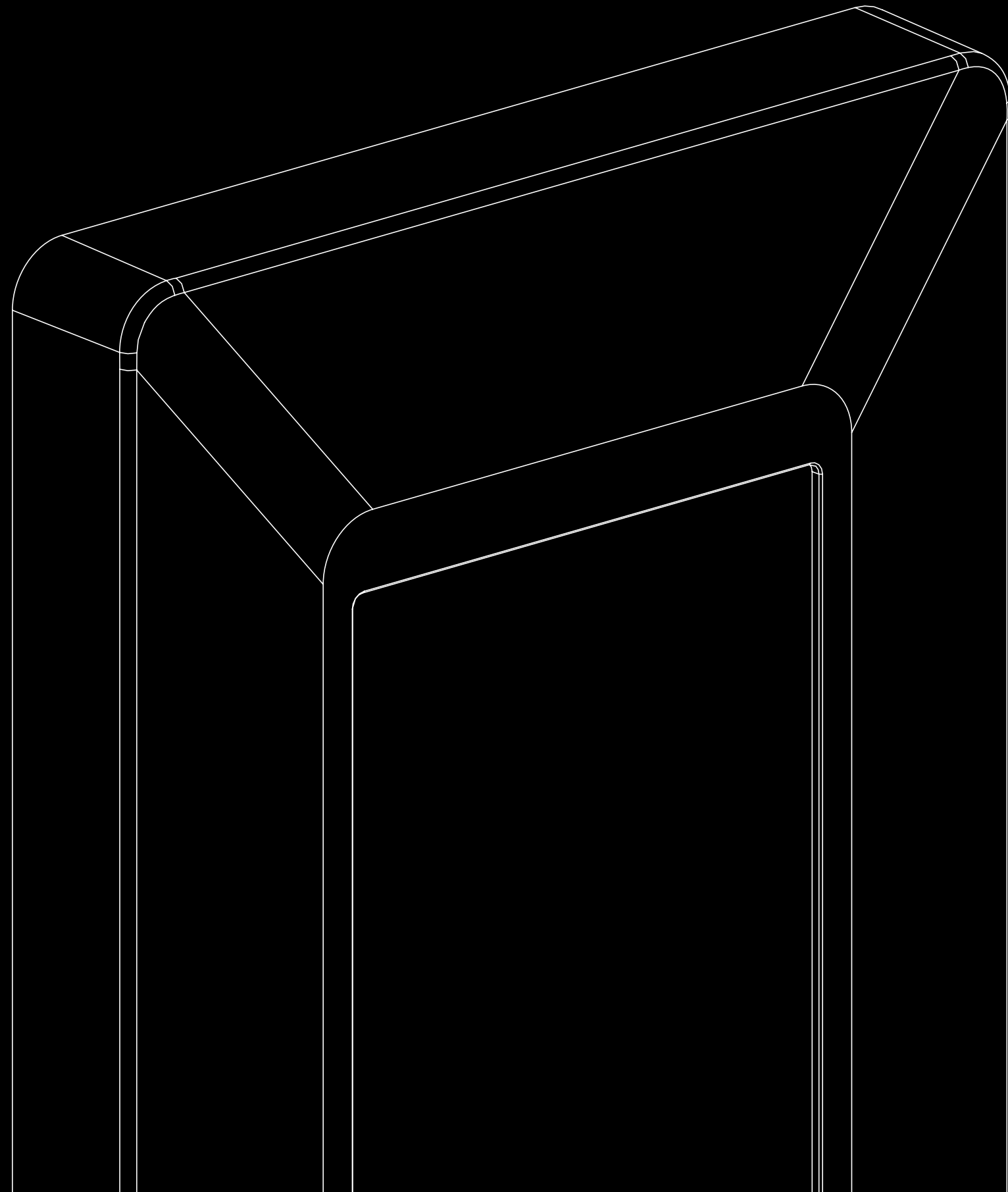


INTEGRAL-WP2

Configuration and operation manual



INTEGRAL

Technical and Safety Notices

Before installing and using this unit, please read this guide carefully.

- 1.** Ensure to store this document in a safe place for future reference.
- 2.** Note this product is intended for installation by professional installers only.
- 3.** This document is intended to provide professional installers with product installation, configuration, and safety guidelines for this product in typical fixed-installation systems.
- 4.** Please read this document and all safety warnings before attempting installation.
- 5.** Please note that this product INCLUDES the in wall EU flush mount electrical box and installation screws.
- 6.** The WP-2 is compatible with standard single-gang electrical boxes (not included). If using one of these instead of the supplied EU flush-mount electrical box, use a commercially available box and installation screws suitable for the specific wall material and installation conditions.
- 7.** All DAS Audio products must be installed in accordance with local, state, federal and industry regulations. It is the installer's responsibility to ensure installation is performed in accordance with all applicable codes, including local building codes and regulations. Consult the local authority having jurisdiction before installing this product.

8. Do not mount the product in locations where condensation may occur.

9. To reduce the risk of fire or electrical shock, do NOT expose this product to rain, liquids or moisture.

10. This product is not intended for installation or use in indoor water facility areas (including, without limitation, indoor pools, indoor water parks, hot tub rooms, saunas, steam rooms and indoor skating rinks).

11. Keep the product away from fire and heat sources.

INTEGRAL

Introduction

1.1 Description

The INTEGRAL-WP2 is a PoE-enabled touch remote control wall panel engineered for seamless management and control of critical parameters in any INTEGRAL series unit, including digital signal processors such as the INTEGRAL-M88, INTEGRAL-M26X, INTEGRAL-M48X and INTEGRAL-MA matrix amplifiers models.

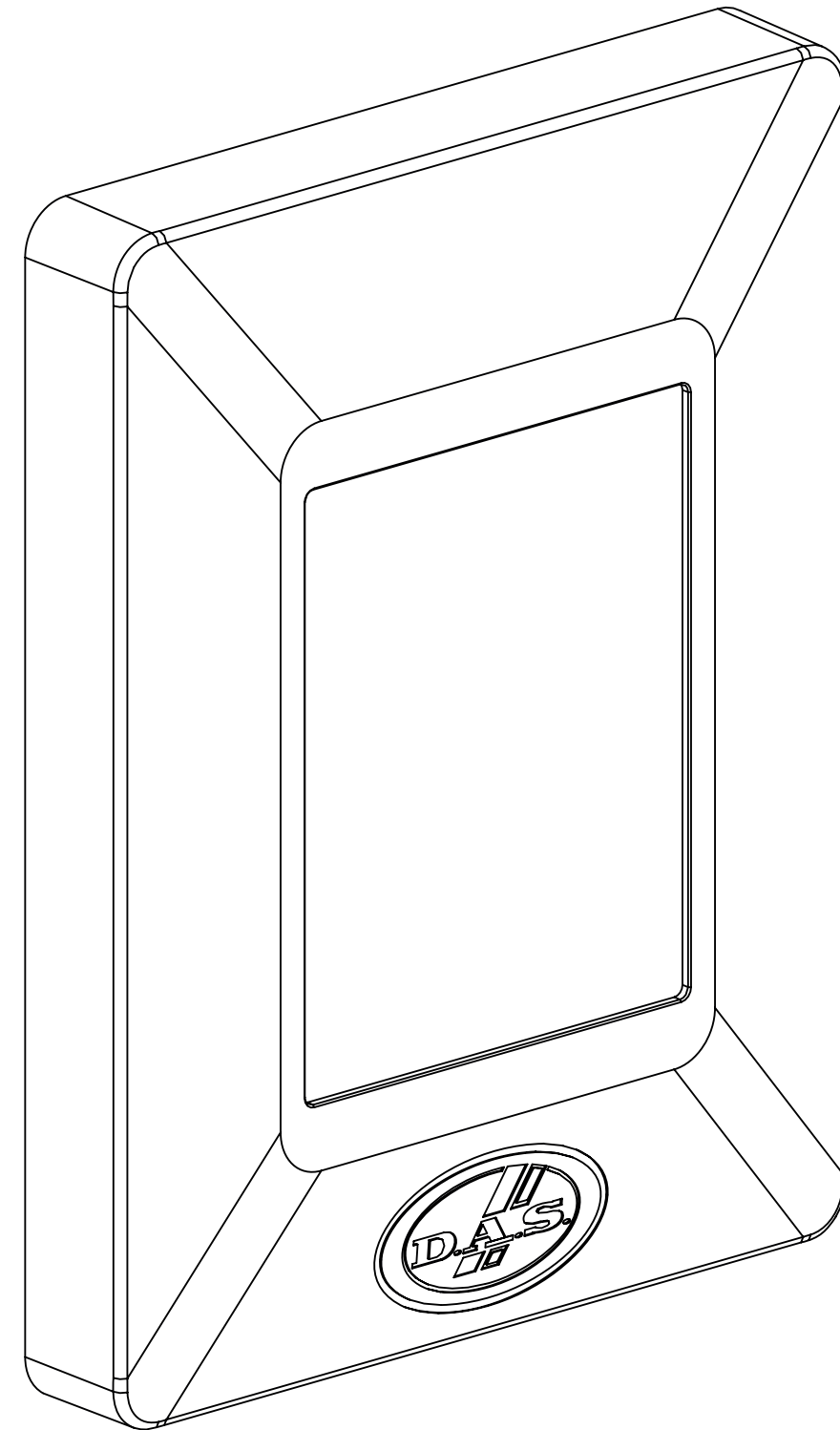
Designed for intuitive programming via ALMA software, the panel enables precise control over key functions, including preset recall, input and output muting, gain adjustments (both input and output), and source selection for single or multiple devices.

Upon network discovery, users can configure custom control pages within ALMA, assigning specific functions to each page for enhanced operational flexibility.

Once configured, the INTEGRAL-WP2 requires no technical expertise to operate, enabling venue personnel to manage the device effortlessly. Its full-color 2.83" LCD display allows the installation engineer to label all control pages, providing staff with a clear, user-friendly interface for adjusting system configurations and audio levels across multiple locations within the venue.

To prevent unauthorized modifications, the WP2 features a password-protected lock function, ensuring that only authorized personnel can access and adjust system settings. This security measure helps maintain the integrity of the configuration while allowing easy operation for approved users.

1.2 Device Requirements



INTEGRAL

Introduction

1.2 Requirements

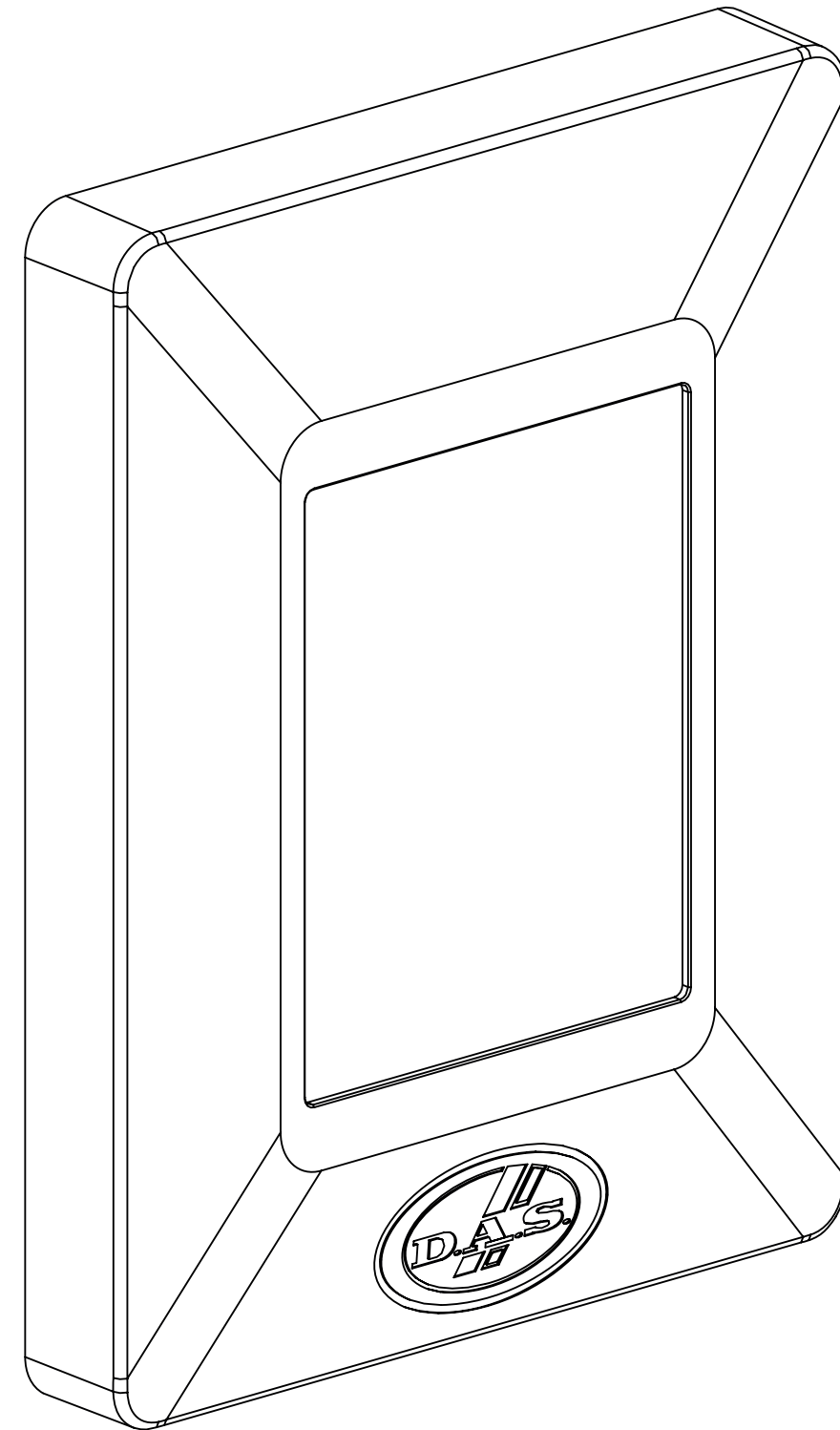
Integral-WP2 devices are only compatible with DAS Audio Integral series products.

A firmware update via ALMA maybe required in your Integral-M88/M26X/M48X/MA units to make the units compatible with the Integral-WP2 controller.

Note that the Integral-WP2 is not self-powered. Power is supplied to the device with the use of a standard PoE Switch (or PoE injector) and Cat5e/6 cable.

Up to 5 Integral-WP2 devices can be operating on One Integral-M26X/M48X/M88/MA unit.

ALMA software is the DAS Audio tool for configuring the units and their functionalities.

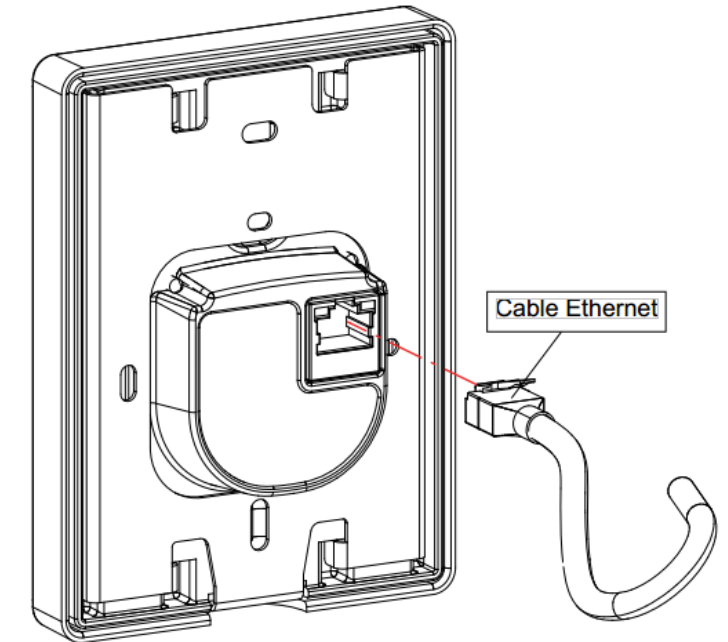
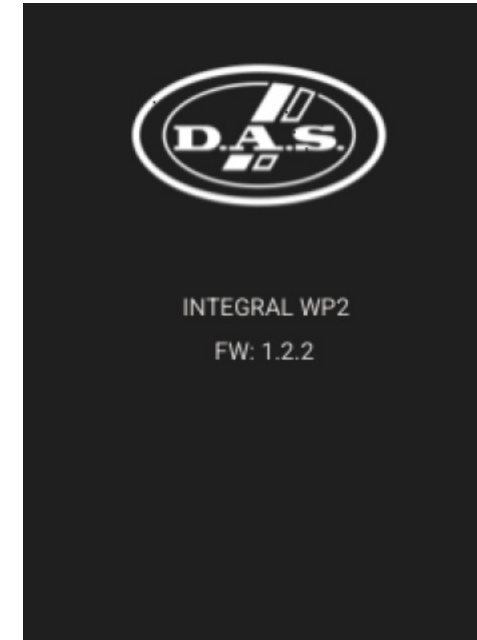


INTEGRAL

Connection and Set Up

1.

Connect the Integral-WP2 to a PoE Switch by the use of its rear ethernet connector.

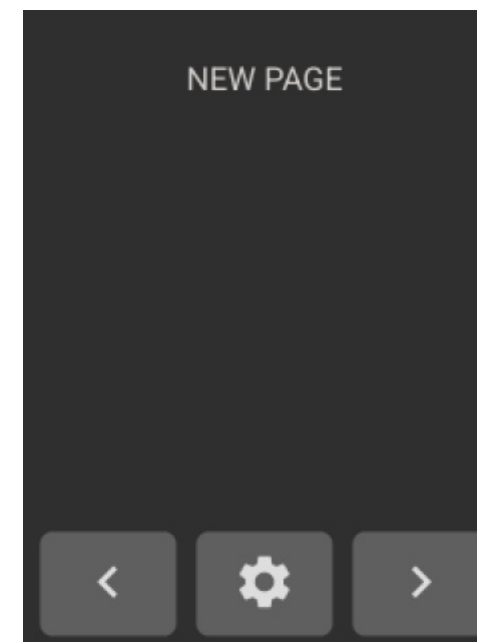


2.

Once the Wall Panel control is receiving power via the connected ethernet cable, the product will power up and display the DAS logo and the actual firmware version for a few seconds as shown above.

After a few seconds the DAS logo will disappear and the wall panel will display this screen. Note that at this moment there no exist any “pages” as no functionalities have been programmed yet via ALMA software.

Touch the Settings Icon  to enter to the configuration menu.



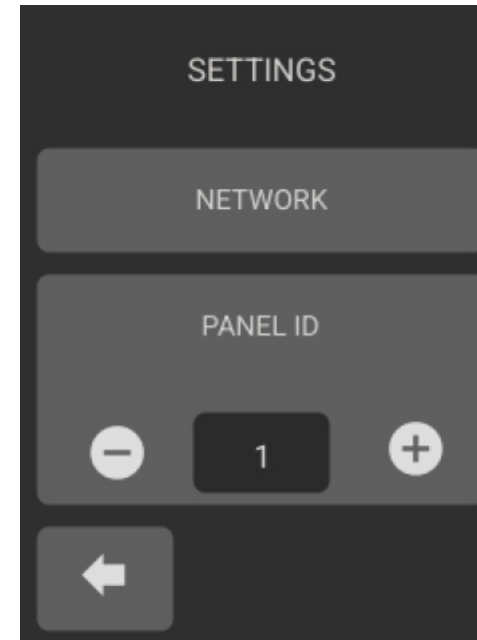
INTEGRAL

Connection and Set Up

3.

Before configuring the panel functionalities on ALMA be sure that each device on the network (Integral-M26X/M48X/M88/MA1004/MA1604/WP2) has a unique ID number (must be a different number for each device on the network).

In the Settings Menu the ID number of each Wall Panel Control can be edited and assigned:



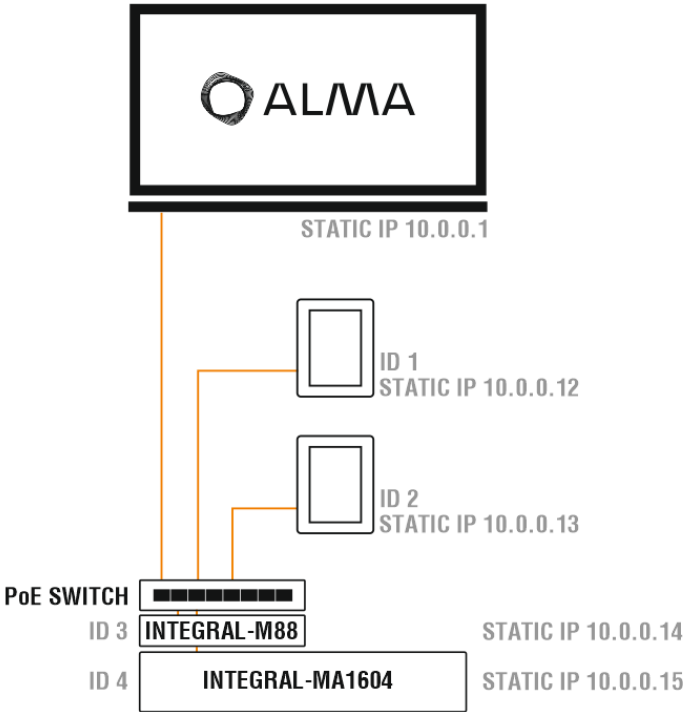
INTEGRAL

Connection and Set Up

This illustrations outline how to connect a pair of WP2 to other integral devices in two different modes. Static and Dynamic.

1.

STATIC MODE – No DHCP Server or Router needed.



Static IP Addresses need to be defined for each WP2 control panel.

Access to Network menu, select the option “Static” and use the arrows up and down to establish the IP address. Repeat the process with the Subnet mask (255.255.255.0):



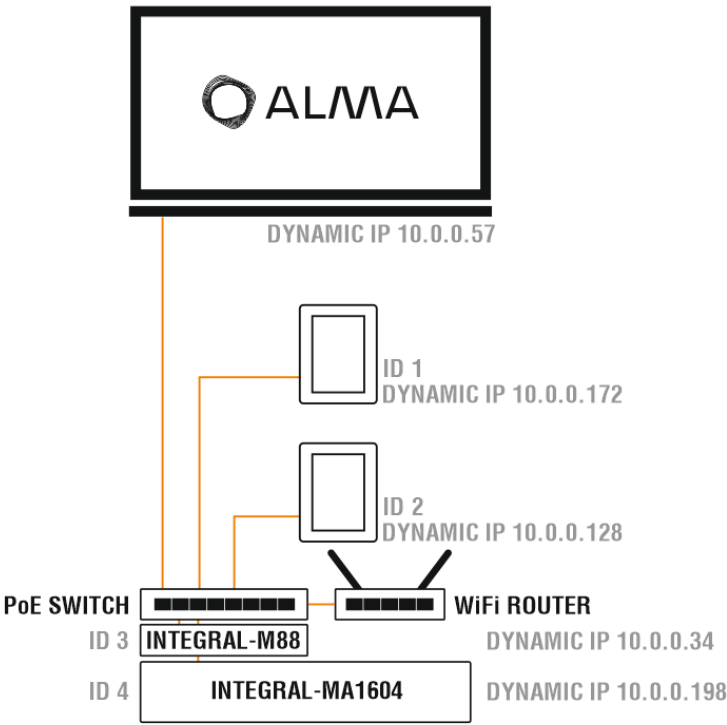
INTEGRAL

Connection and Set Up

This illustrations outline how to connect a pair of WP2 to other integral devices in two different modes. Static and Dynamic.

2.

DYNAMIC MODE - A DHCP Server or Router is needed to provide Addresses to all units on the network.



All Integral-WP2 is set from factory to DHCP mode. So, there is no need to access to the network menu if the unit has not previously changed to static mode. In any case, the network menu will display the panel's IP Address once connected to the network router or DCHP server.

Shown in the above image the Wall Panel Control in Dynamic mode with its IP address set to 10.0.0.172.



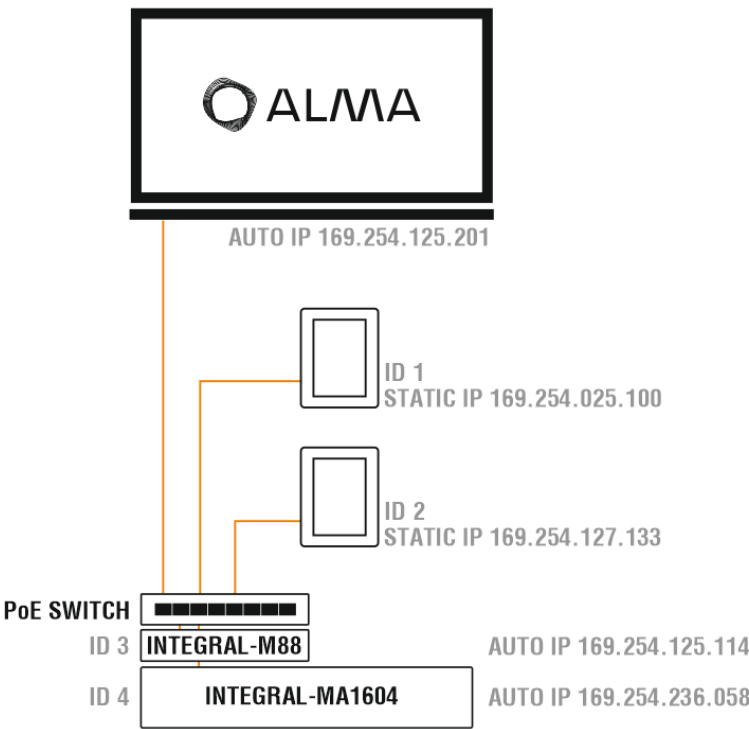
INTEGRAL

Connection and Set Up

This illustrations outline how to connect a pair of WP2 to other integral devices in two different modes. Static and Dynamic.

3.

APIPA MODE – All integral units can self-assign themselves an IP address once they are powered and no router or DHCP server is found on the network.



Connect the Integral units to ALMA, check the self-assigned IP addresses on the software and use different ones for the Wall Panels.



INTEGRAL

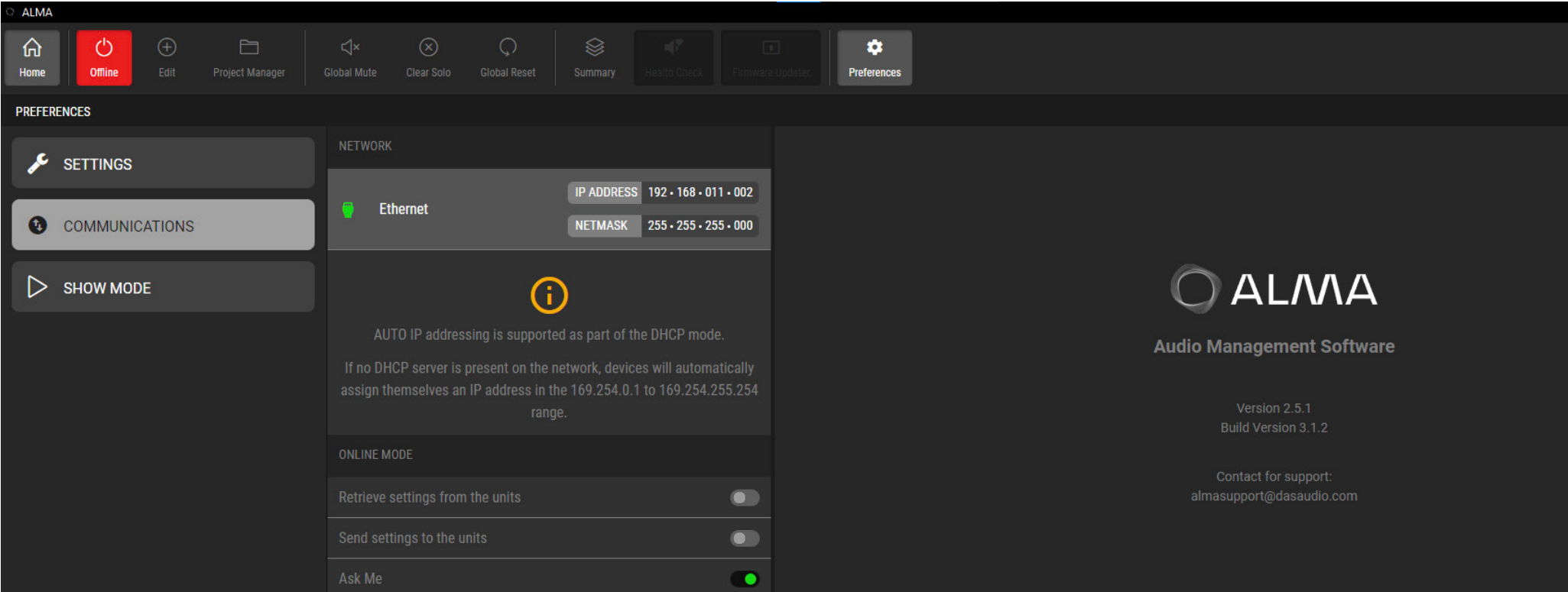
Configuration via ALMA

Either Static on Dynamic Network be sure all your Integral-WP2 are properly connected to a PoE Switch(es). Indeed, make sure all devices on the network have different ID numbers.

At this point the units can be configured using ALMA software.

1.

Open ALMA, select in the preferences menu > communications, the ethernet adapter:

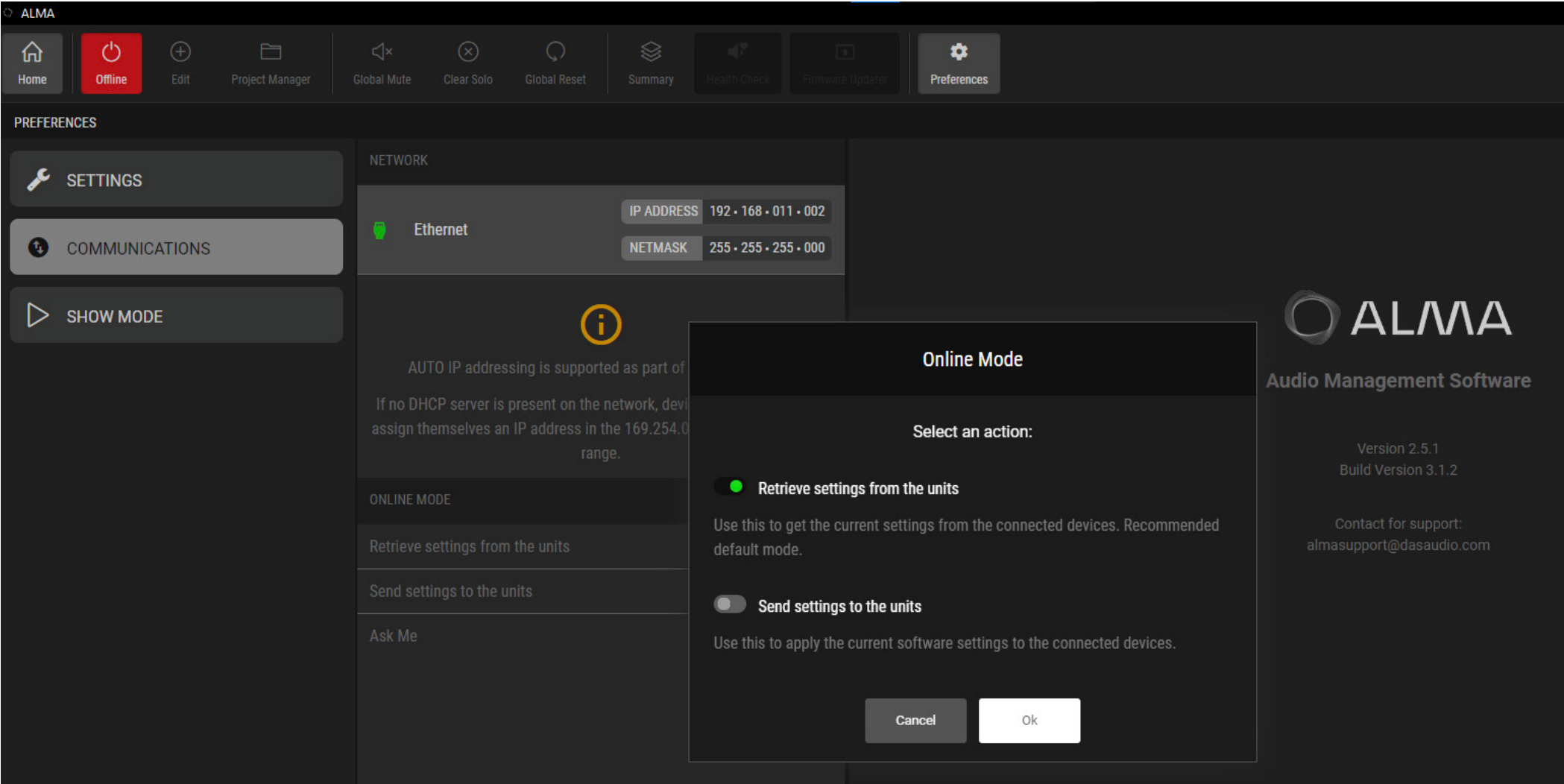


INTEGRAL

Configuration via ALMA

2.

Go Online:



In this case the user has selected “Retrieve settings” from the units.

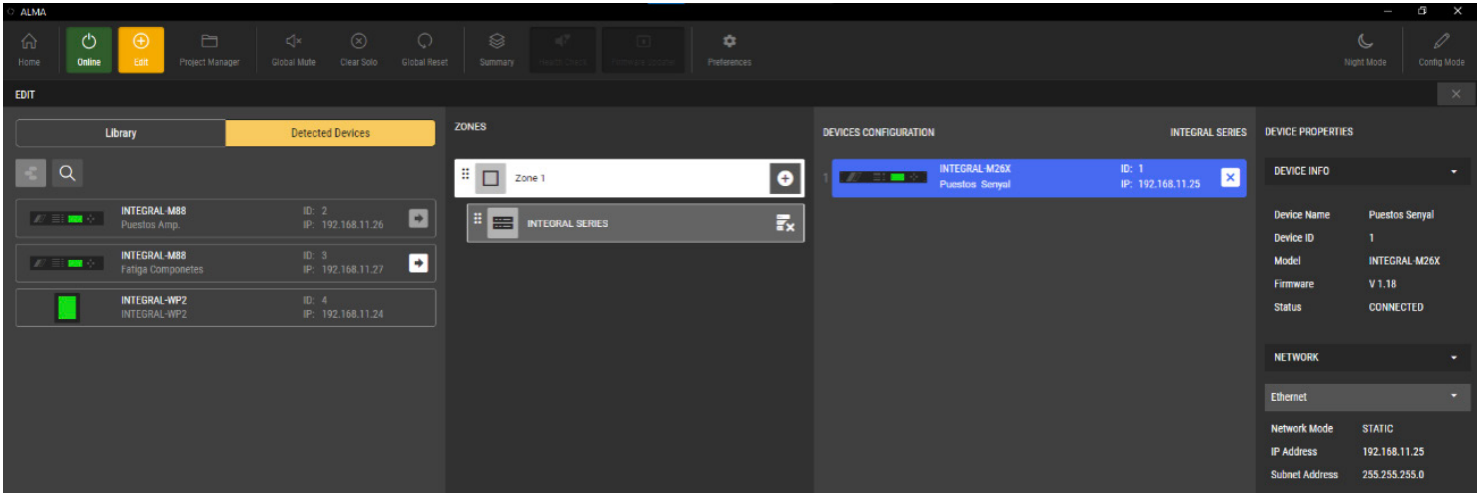
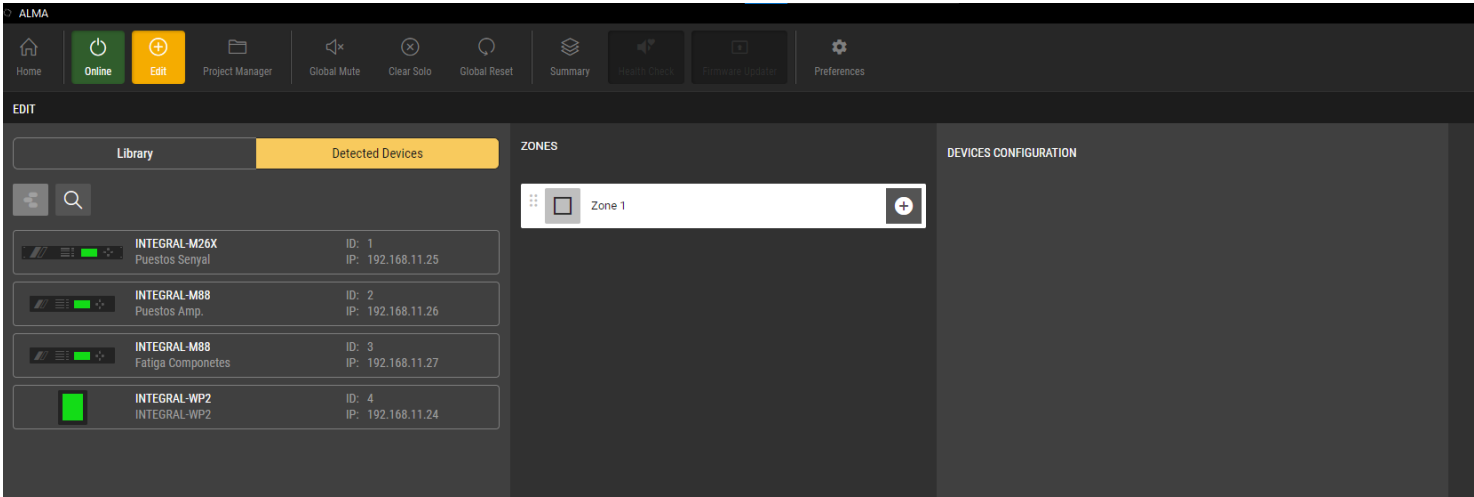
INTEGRAL

Configuration via ALMA

3.

Insert the discovered units in “Zone 1”. Add your already scanned and discovered Integral devices to the “Zone 1” by selecting electronics > Integral.

Move the units “inside” Zone 1 by clicking the White Arrow.

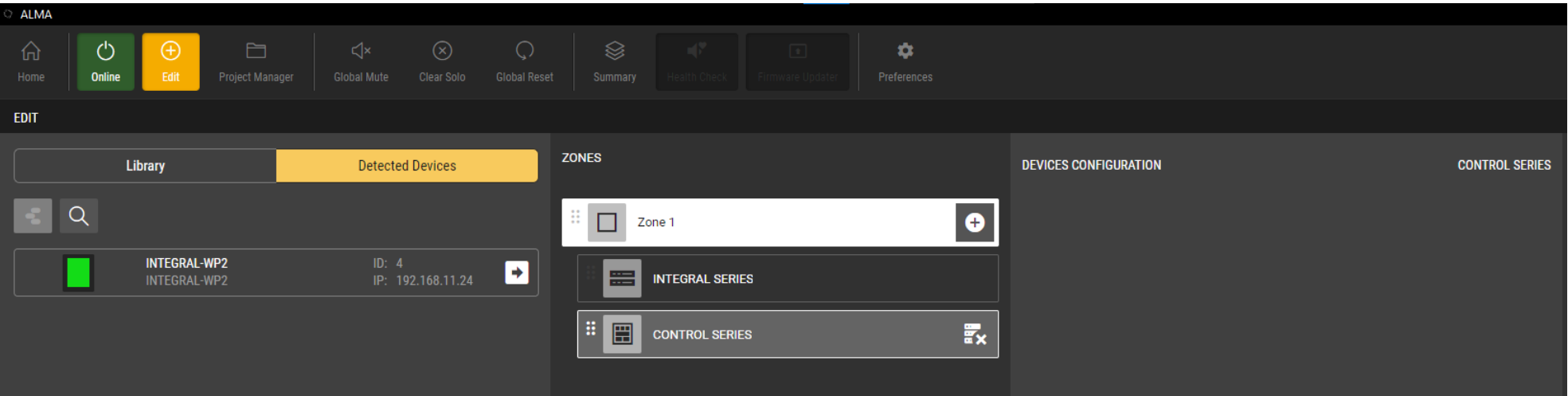


INTEGRAL

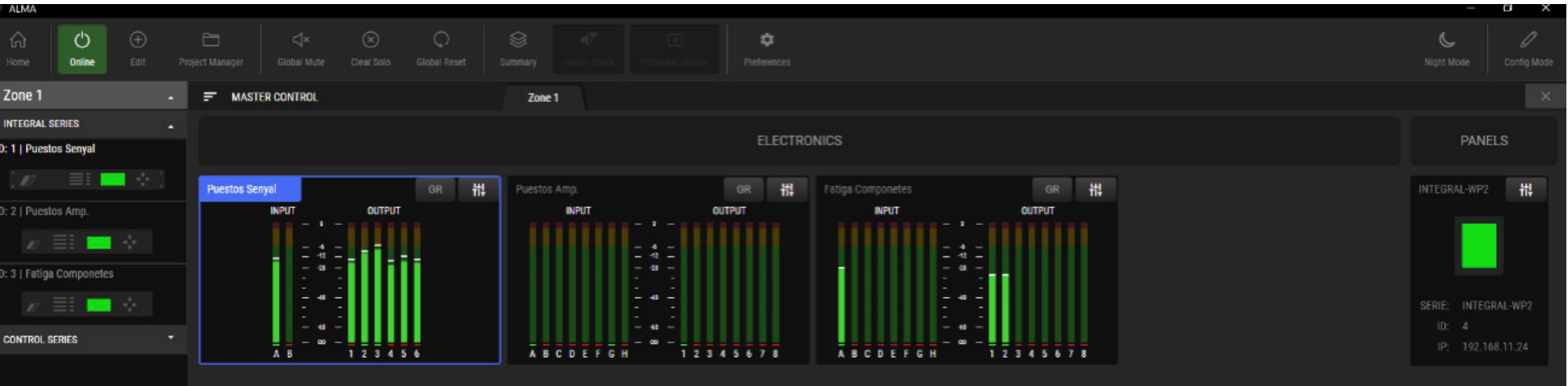
Configuration via ALMA

4.

Insert the discovered WP2 in “Zone 1”. Add your already discovered Integral WP2 to the “Zone 1” by selecting controls. Move the units “inside” Zone 1 by clicking the White Arrow.



All units will belong now to “Zone 1”:



INTEGRAL

Configuration via ALMA

Next steps consist of programing the functionalities of the Integral-WP2.

The Integral-WP2 contains one “Template/ page” in blank. Every single page can include up to three different functions. If more functions (Actions) are needed, more templates can be added.

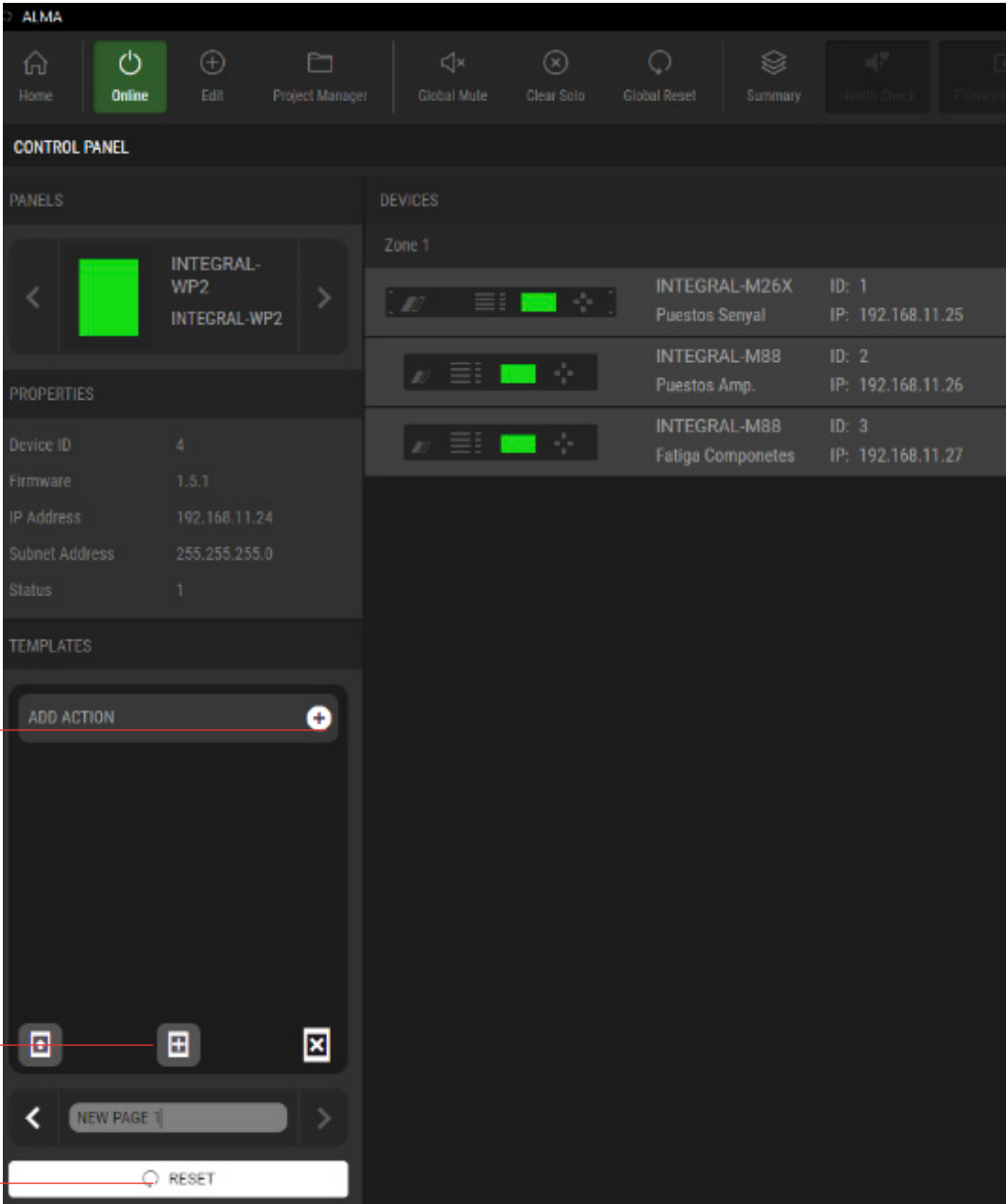
Templates can be added and removed.

Reset Button eliminates ALL PAGES and Functions.

ADD ACTION

ADD TEMPLATE

DELETE TEMPLATE



INTEGRAL

Configuration via ALMA

Actions or Functions available:

GAIN: The Gain Change functionality of the Integral-WP2 panel allows users to adjust the gain levels of input and output channels on one or multiple Integral devices at the same time. These adjustments are applied relatively, meaning the gain is modified incrementally based on the current existing level rather than setting an absolute value.

This relative gain control ensures that changes maintain the existing mix balance while providing the flexibility to fine-tune audio levels dynamically. Whether adjusting a single device or multiple devices simultaneously, the system applies the gain modification proportionally to each selected channel's current setting.

MUTE: The Mute functionality of the Integral-WP2 panel allows users to instantly silence specific input or output channels on one or multiple Integral devices. This action can be applied to individual channels or groups of channels simultaneously, providing flexible control over the audio system.

The mute operation is a toggle function, meaning it can switch a channel between muted and unmuted states. This allows for quick sound management in various scenarios, such as temporarily silencing a microphone, muting background music, or preventing unintended audio from playing.

With seamless integration into ALMA, the mute state can be programmed as part of system presets or automated workflows, ensuring precise control in live or installed audio environments

RECALL: The Preset Recall functionality of the Integral-WP2 panel allows users to instantly load predefined configurations stored in one or multiple Integral devices. These presets, which must be previously saved by the user, can include

INTEGRAL

Configuration via ALMA

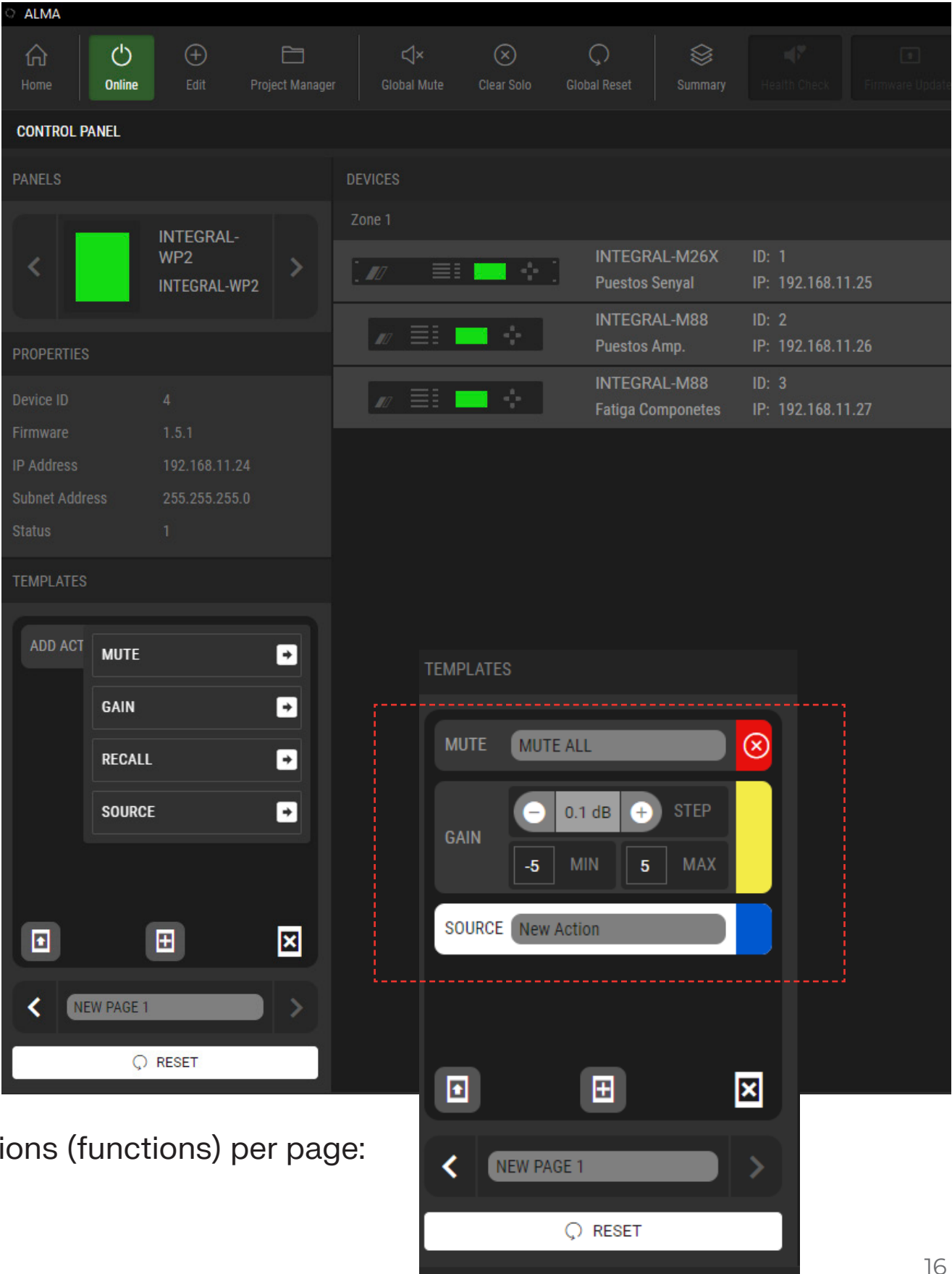
parameters such as gain settings, mute states, source selections, EQ and Delay adjustments, and other system configurations.

By recalling a preset, users can quickly switch between different system setups, optimizing the audio environment for various scenarios without manually adjusting each parameter. This ensures consistency, efficiency, and ease of operation in both live and installed audio applications.

SOURCE: The Source Selection functionality of the Integral-WP2 panel allows users to dynamically change the routing of audio sources within one or multiple Integral devices. This function enables seamless switching between different input sources and their assigned output channels, effectively modifying the system’s routing matrix in real time.

By selecting a new source, users can reassign audio inputs to different outputs without manually reconfiguring the system, making it easy to adapt to different audio scenarios. This is particularly useful in installations where multiple sources (e.g., microphones, media players, or networked audio streams) need to be routed to different zones or outputs as needed.

In the images on the right all programmable actions are shown:



Three actions (functions) per page:

INTEGRAL

Configuration via ALMA

GAIN

To create a new action, click on the ADD ACTION button.

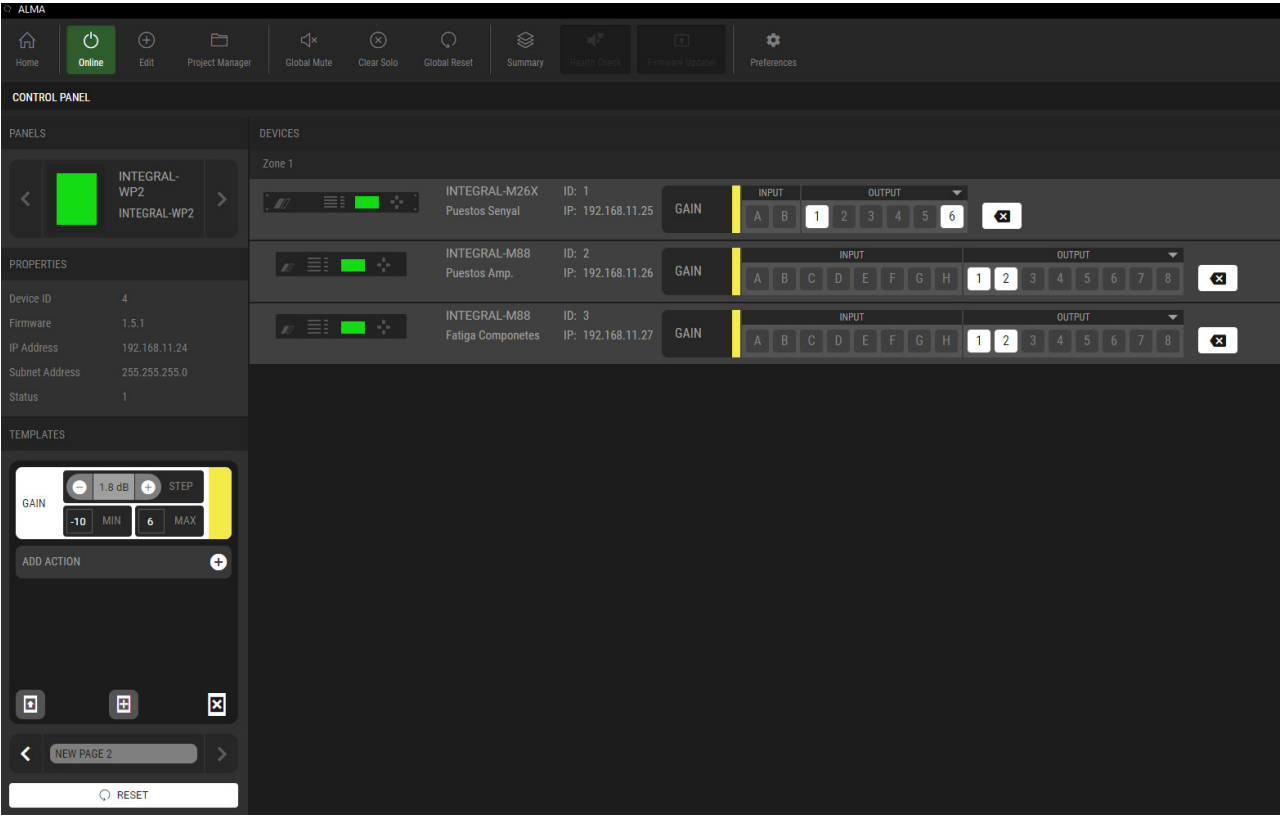
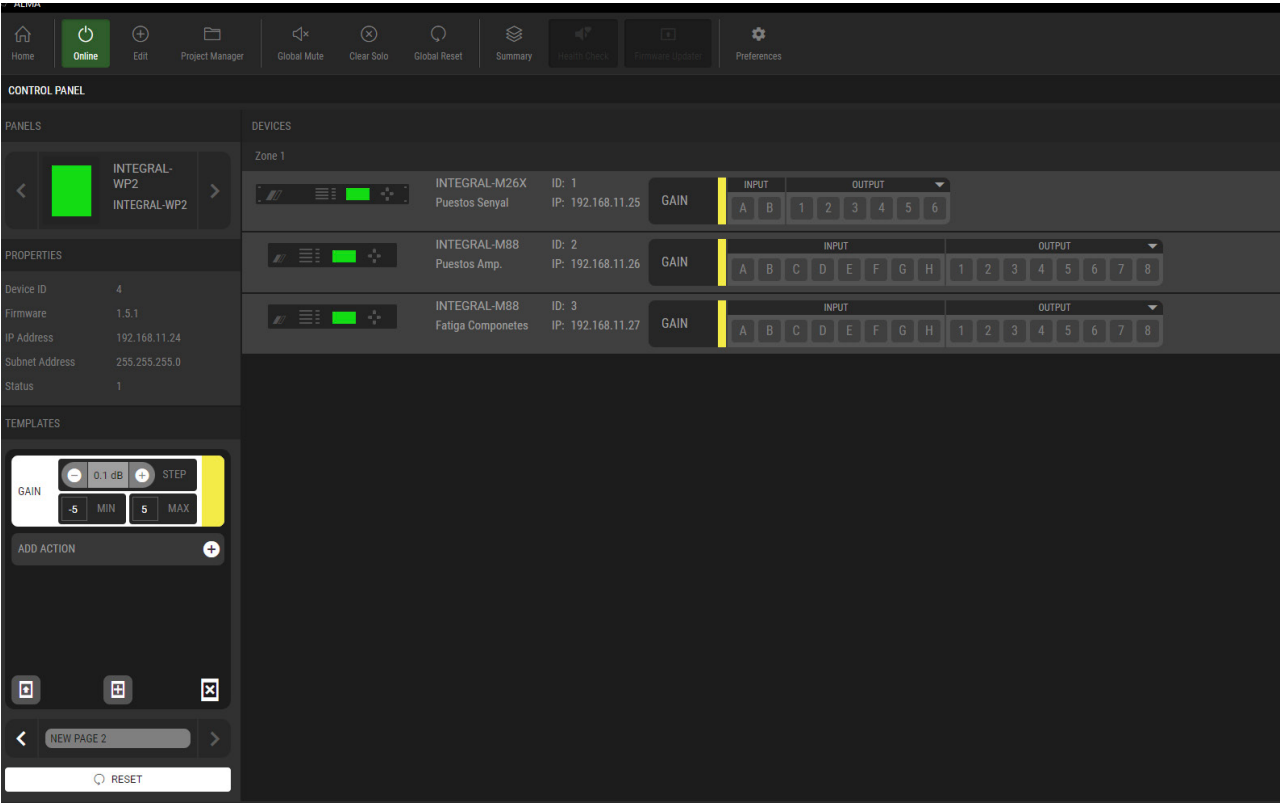
Select the type of action to be created between the available choices, Gain, Mute, Source, Recall. In this case, select Gain.

Assign or click on the channels affected by this gain change.

Minimum and maximum range of gain change can be defined (from -10dB to +6dB).

Steps or increments can be defined in addition. Steps from 0.1dB to 2dB:

Relative Gain Change set on Outputs 1&2 of Integral-M88 (ID2,3) and Output 1 of Integral-M26X, ID1.



INTEGRAL

Configuration via ALMA

MUTE

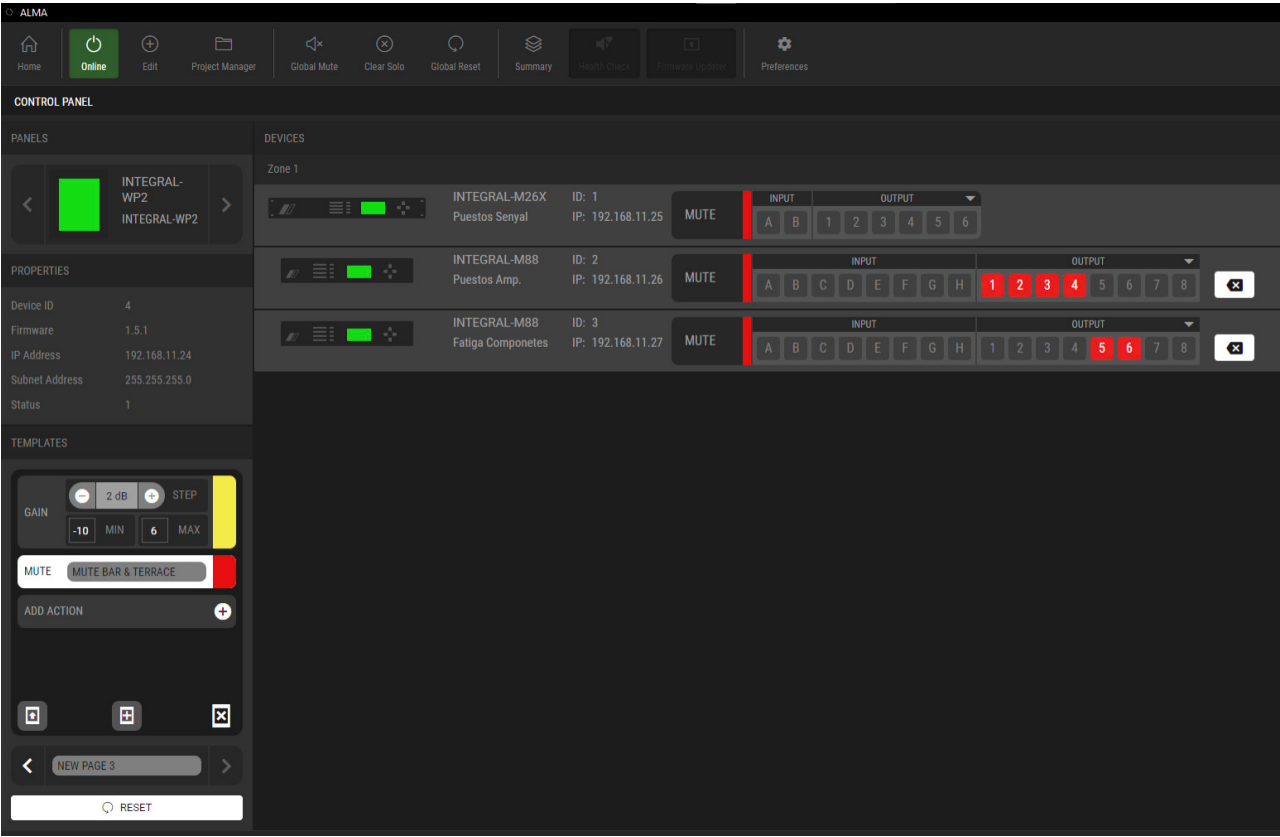
To create a new action, click on the ADD ACTION button.

Select the type of action to be created between the available choices, Gain, Mute, Source, Recall. In this case, select Mute.

Assign or click on the channels to be muted.

A new MUTE action has been added: Outputs 1,2, 3, 4 of Integral-M88 ID2 and Outputs 5,6 of Inegral-M88 ID3 will be muted.

At this moment the Integral-WP2 will display this information on Page 1 (New Page):



INTEGRAL

Configuration via ALMA

RECALL

To create a new action, click on the ADD ACTION button.

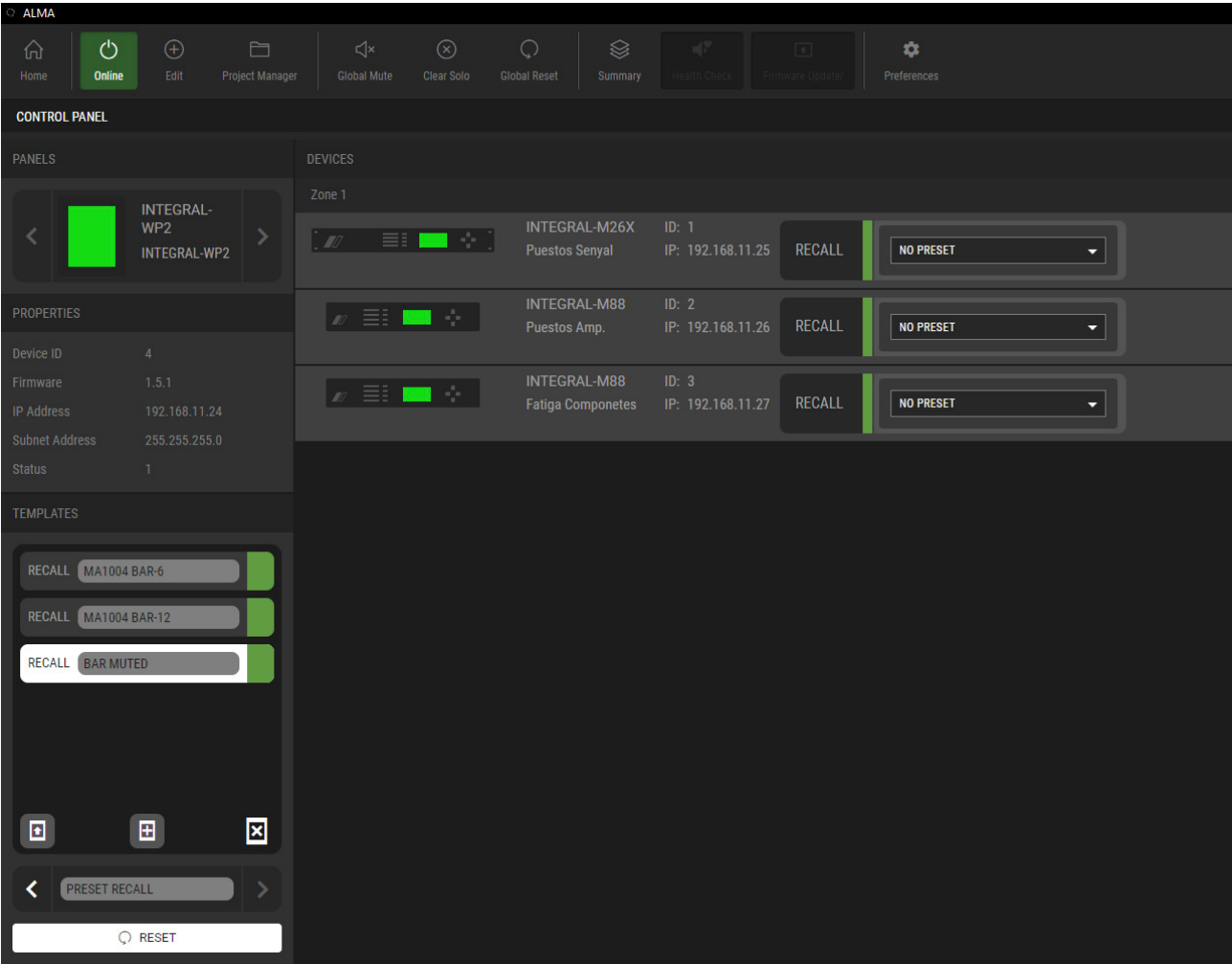
Select the type of action to be created between the available choices, Gain, Mute, Source, Recall. In this case, select Recall.

To recall presets (global presets) from the Integral units, obviously the user has to store different memories in the units before creating this action on ALMA for the WP2.

In the sample below, the Integral-M88 /M26X units contain different presets in their banks of global memory. One preset sets input gain at -6, other preset sets input gain at -12 and the third preset Mutes all the inputs.

Note than preset Recall action can be affecting several presets on different Integral devices at the same time.

At this moment the Integral-WP2 will display this information on Page 2 (Preset Recall):



INTEGRAL

Configuration via ALMA

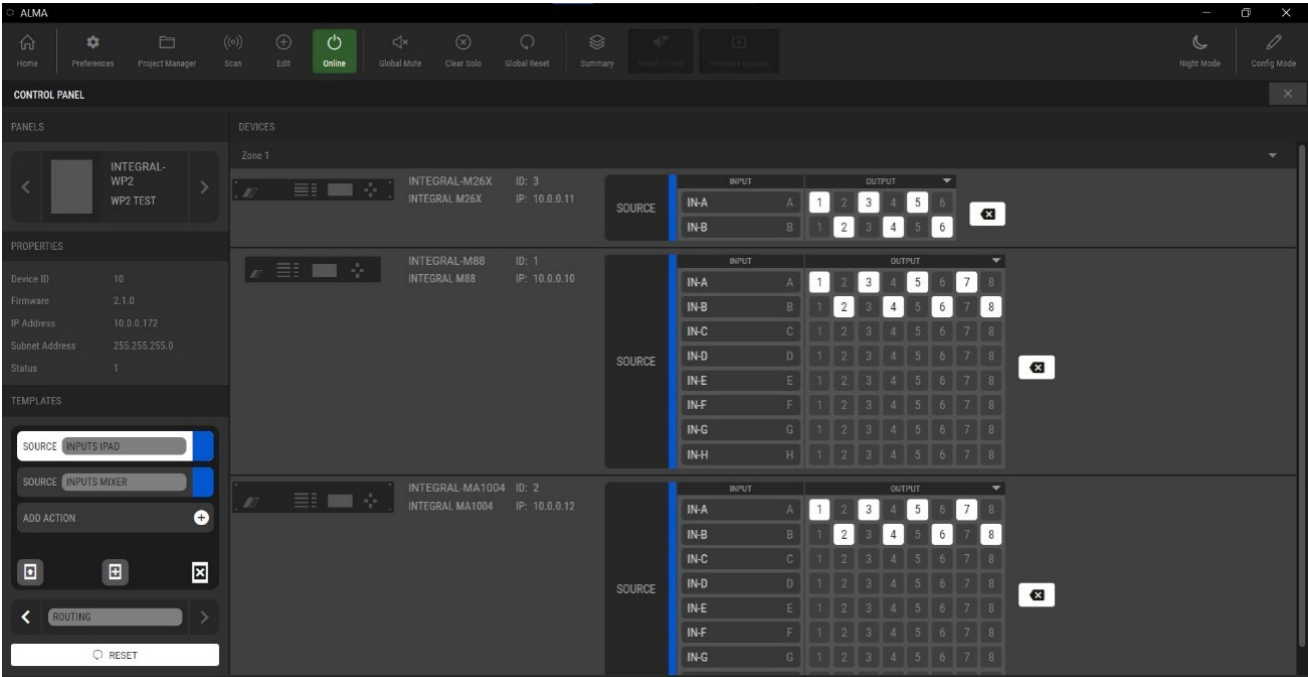
SOURCE

To create a new action, click on the ADD ACTION button.

Select the type of action to be created between the available choices, Gain, Mute, Source, Recall. In this case, select Source.

Two different input routings have been created.

At this moment the Integral-WP2 will display this information on Page 3 (Routing):



INTEGRAL

Configuration via ALMA

OPERATION

Integral-WP2 has been designed for easy and intuitive operation. Once installed and configured (ALMA software), the user operates all the device's functions via its touch screen.

The unit will be locked with password after 2 minutes without interacting with it.

To unlock the unit, enter the code 0292.

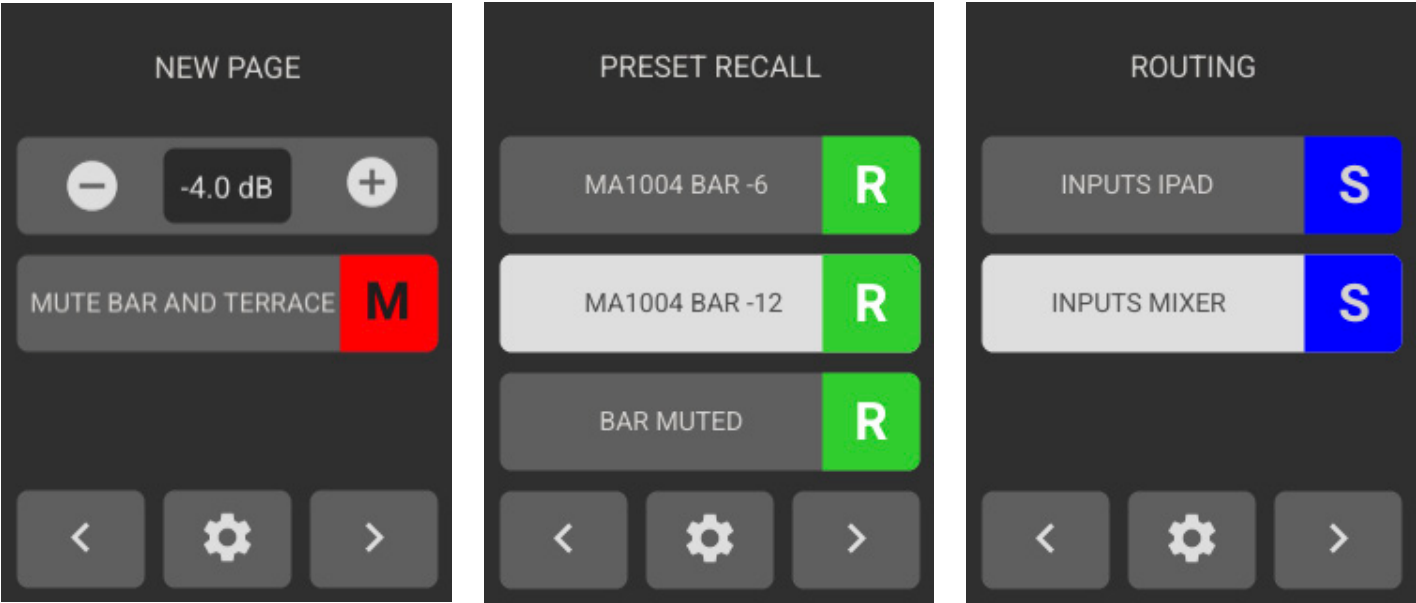
Navigate between pages touching the screen and the left right arrows.

When changing the Gain, numbers will vary in the display.

When Muting is active the M will appear in red color.

When Recalling a Preset, the active one will appear in White.

When Recalling a Source, the active one will appear in White.

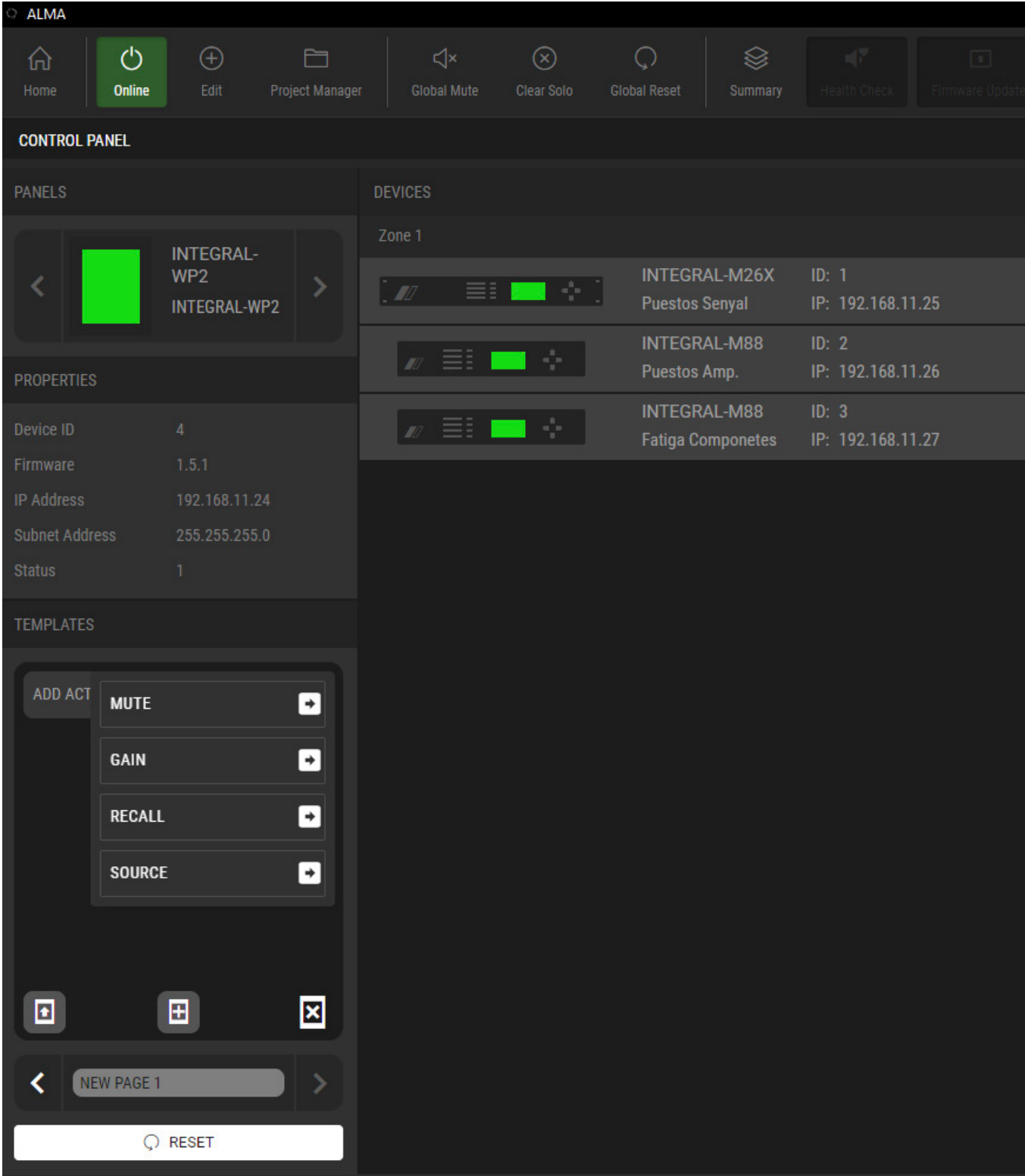


INTEGRAL

Configuration via ALMA

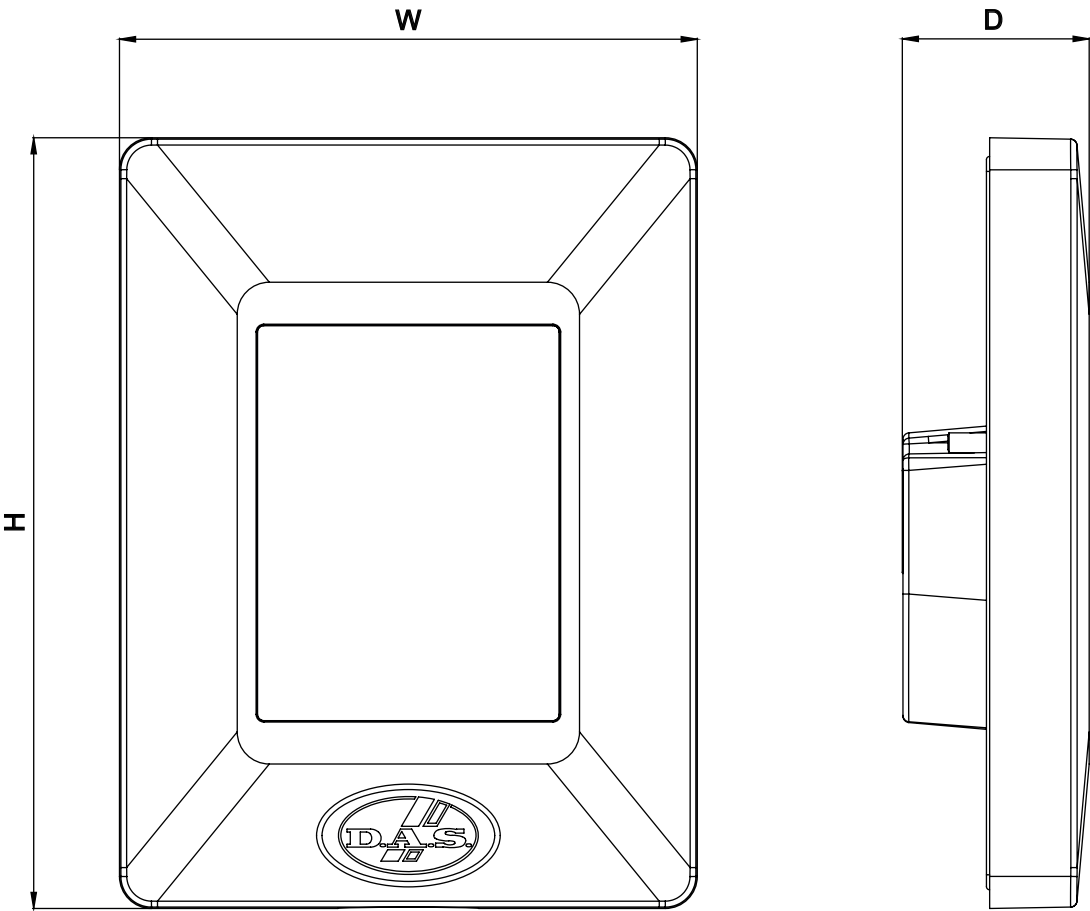
RESET

It is possible to reset an Integral-WP2 device back to its factory settings. When resetting the device all “pages” and all “actions” will be removed. The IP Address and ID number will not be erased.



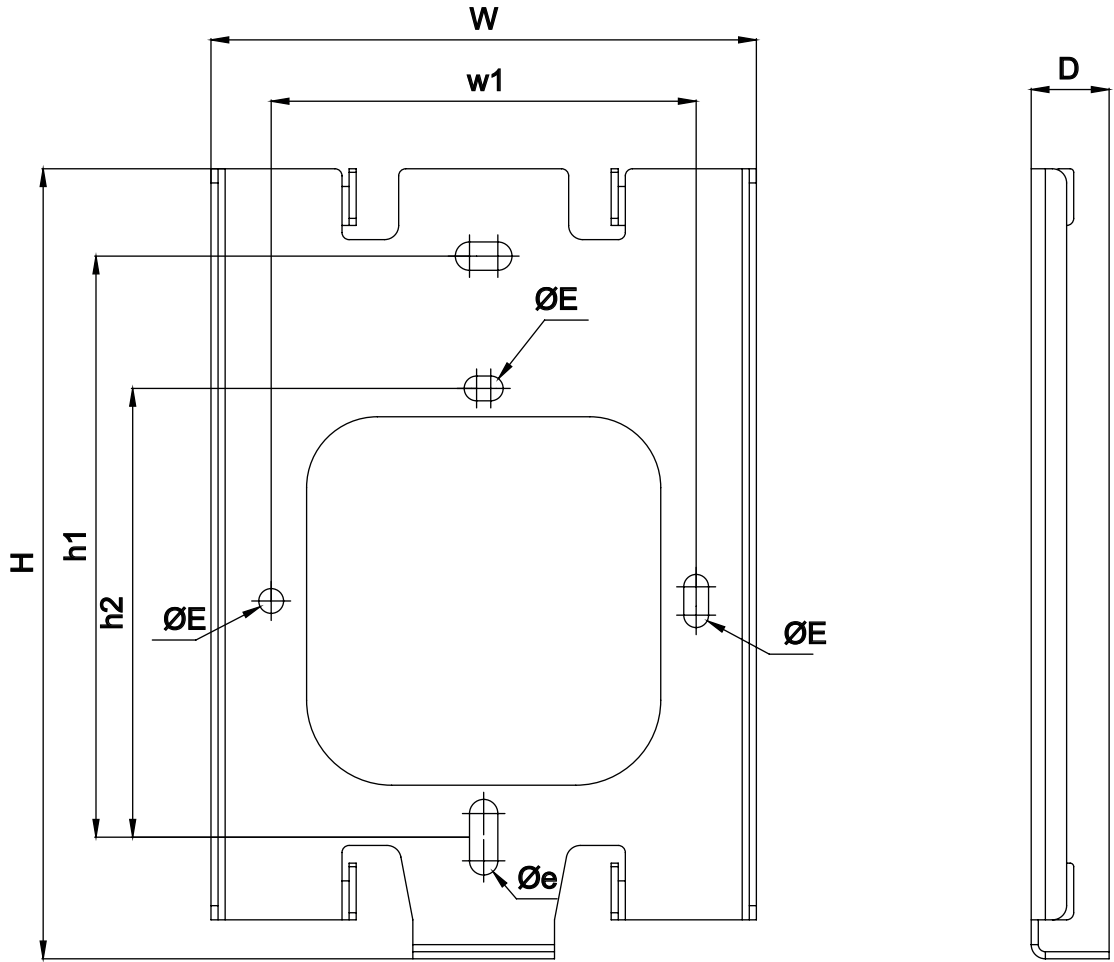
INTEGRAL
Line drawings

PANEL WP-2



H x W x D: 120 x 90 x 29mm
4,7 x 3,5 x 1,15 in

ANCHOR PLATE WP-2



H x W x D: 111 x 77 x 11 mm
4,3 x 3 x 0,4 in

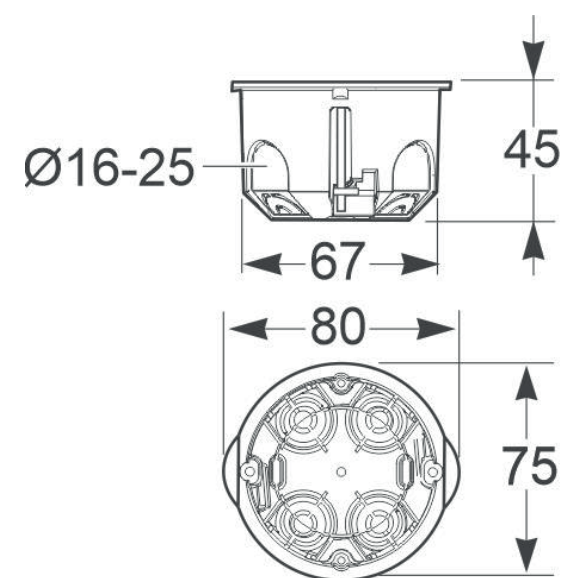
h1: 82mm/ 3,2 in
w1: 60mm/ 2,3 in
h2: 63mm/ 2,4 in

ØE: 3,5 mm / 0,13 in
Øe: 4 mm / 0,15 in

INTEGRAL

Line drawings

Junction box for hollow wall



External dimensions

HxWxD: 75 x 80 x 45 mm
3 x 3,15 x 1,8 in

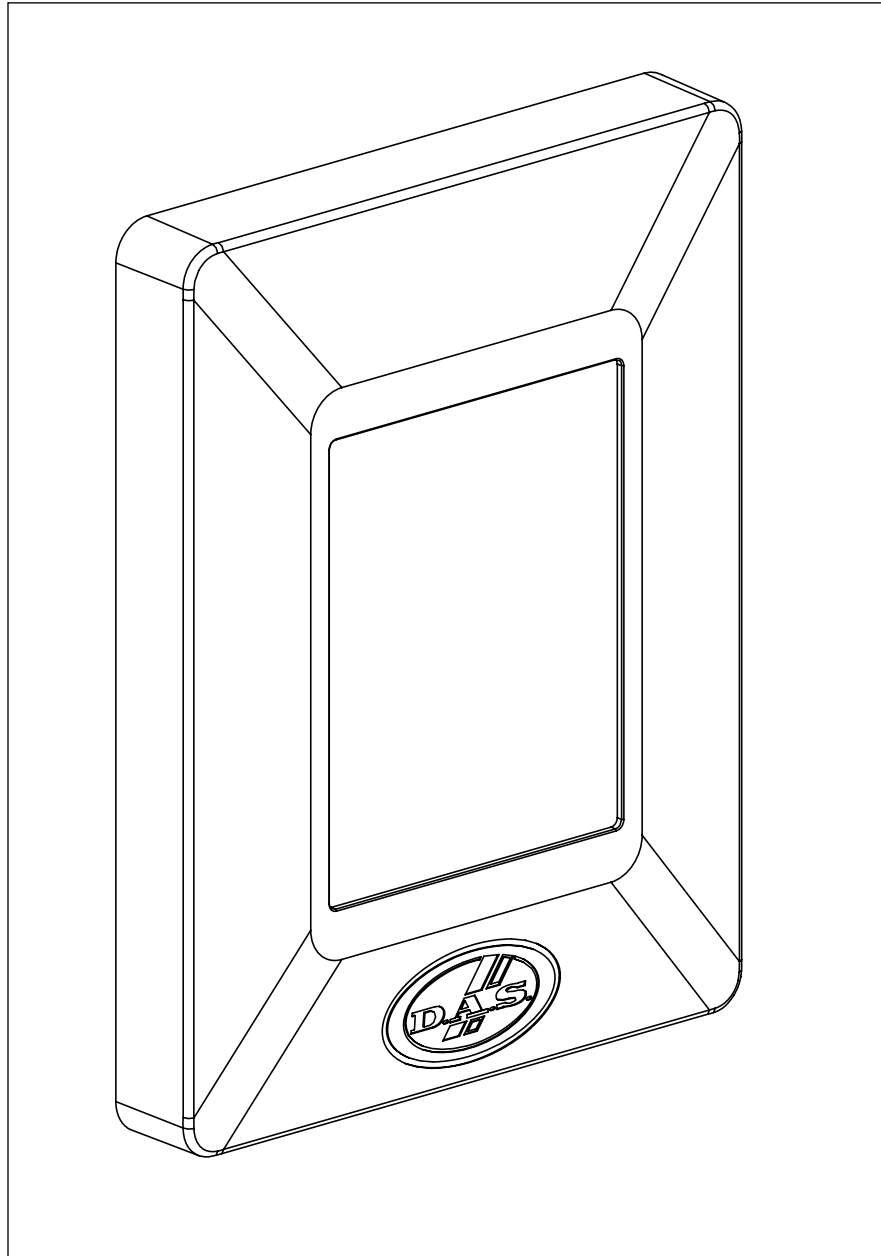
Internal dimensions

HxWxD: 67 x N/A x 45 mm
2,6 x N/A x 1,8 in

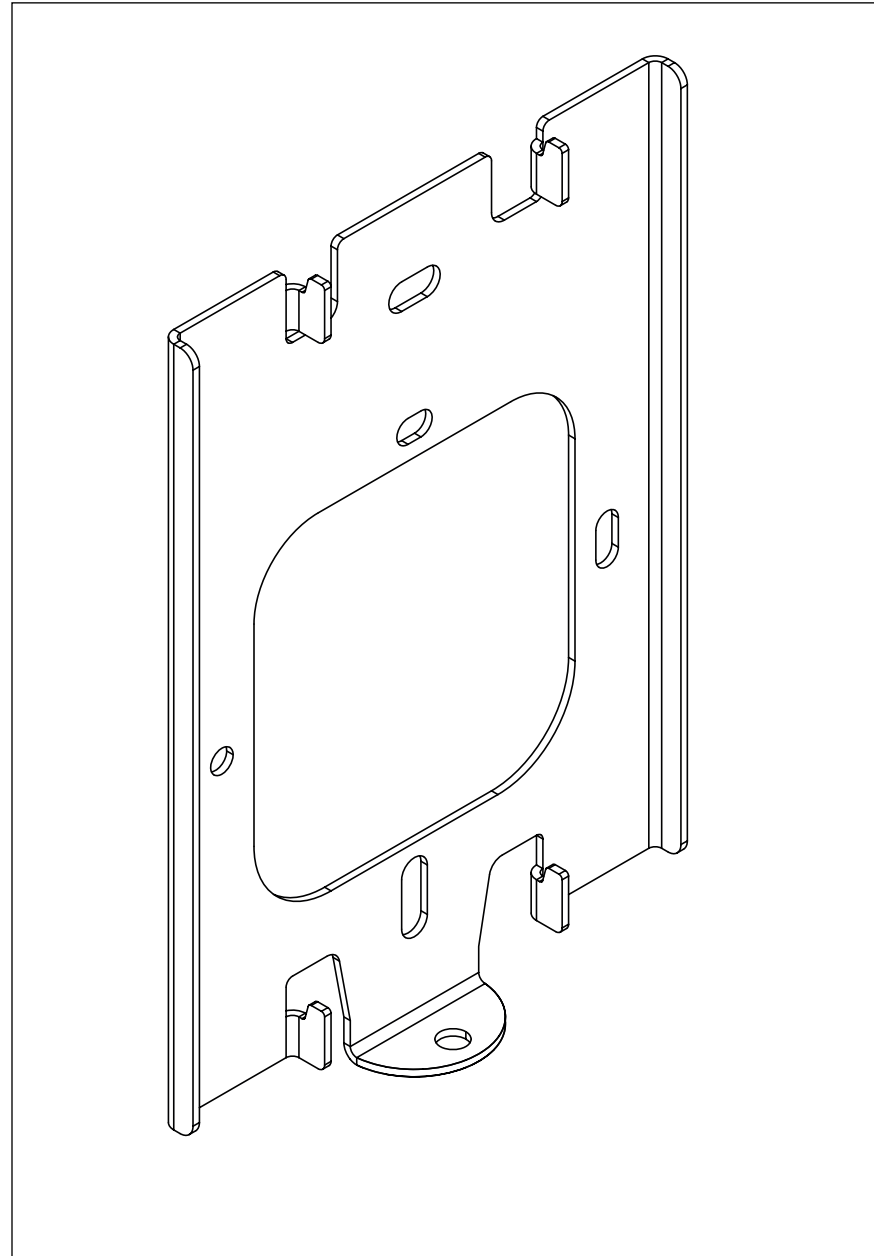
INTEGRAL

Line drawings

1 x Panel WP-2 / WP-2 panel



1 x Placa anclaje WP-2 / WP-2 Back plate

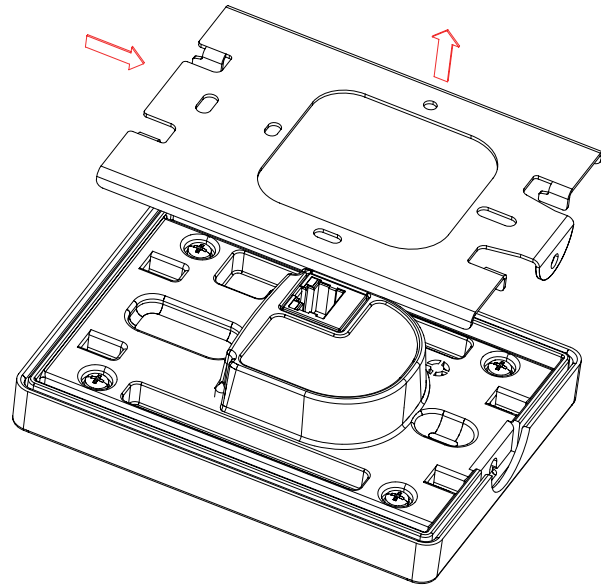


1 x Tornillo M3x6 / M3x6 screw
1 x Llave Allen no2 / Allen key no2

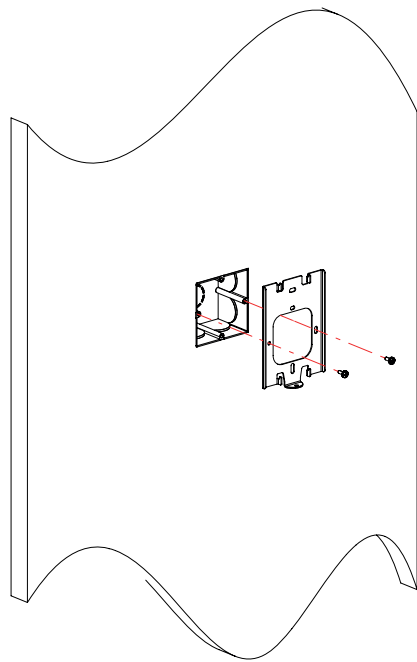
INTEGRAL Installation

** The product is designed to be installed in an electrical wall box **

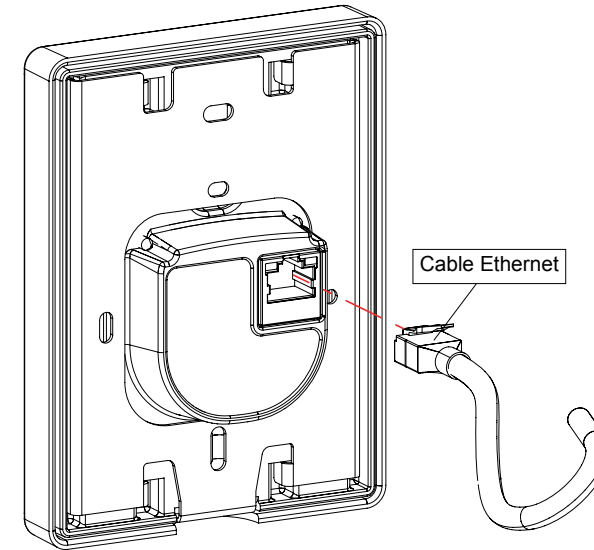
1. Split the panel and the back plate applying a sliding movement.



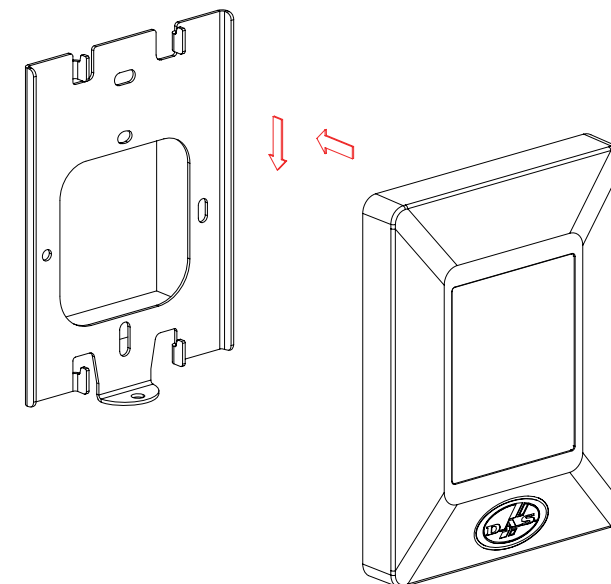
2. Screw the back plate to the wall box using the box screws



3. Plug the Ethernet cable into the panel back socket



4. Hang the panel from the back plate inserting the plate hooks into the panel slots



INTEGRAL Installation

5. Fix the panel to the back plate inserting the supplied screw into the panel bottom hole and tighten it slightly,

