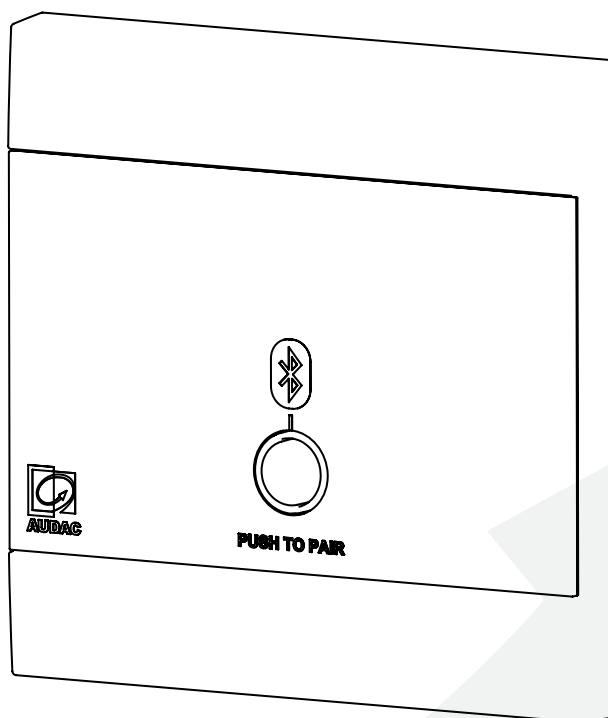


WP220



ADDITIONAL INFORMATION

This manual is put together with much care, and is as complete as could be on the publication date. However, updates on the specifications, functionality or software may have occurred since publication. To obtain the latest version of both manual and software, please visit the Audac website @ www.audac.eu.



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Universal wall panel - Bluetooth receiver

The WP220 is a remote universal wall panel with Bluetooth receiver input that can be used in combination with various AUDAC devices. It was never easier connecting your Bluetooth enabled device with your audio installation using this wall plate. It will enable you to transfer high-quality audio over long distances between the wall panel and the loudspeaker, by just using inexpensive twisted-pair CAT5e or better cabling.

On the front side of the wall panel, you'll find a Bluetooth pair button with a handy LED status to check if its in pairing mode or already connected to a device. Bluetooth pair name can be customized as desired. The Bluetooth receiver works with iPhones, iPads, iOS & Android smartphones, tablets, PC, Laptops, Desktops, etc...

The WP220 is available in 2 colours and is compatible with most standard EU (80x80 mm) style in-wall boxes for solid and hollow walls. With the Elegant ABS front panel with glass, it will blend into any environment.

READ FOLLOWING INSTRUCTIONS FOR YOUR OWN SAFETY

ALWAYS KEEP THESE INSTRUCTIONS. NEVER THROW THEM AWAY

ALWAYS HANDLE THIS UNIT WITH CARE

HEED ALL WARNINGS

FOLLOW ALL INSTRUCTIONS

NEVER EXPOSE THIS EQUIPMENT TO RAIN, MOISTURE, ANY DRIPPING OR SPLASHING LIQUID. AND NEVER PLACE AN OBJECT FILLED WITH LIQUID ON TOP OF THIS DEVICE

NO NAKED FLAME SOURCES, SUCH AS LIGHTED CANDLES, SHOULD BE PLACED ON THE APPARATUS

DO NOT PLACE THIS UNIT IN AN ENCLOSED ENVIRONMENT SUCH AS A BOOKSHELF OR CLOSET. ENSURE THERE IS ADEQUATE VENTILATION TO COOL THE UNIT. DO NOT BLOCK THE VENTILATION OPENINGS.

DO NOT STICK ANY OBJECTS THROUGH THE VENTILATION OPENINGS.

DO NOT INSTALL THIS UNIT NEAR ANY HEAT SOURCES SUCH AS RADIATORS OR OTHER APPARATUS THAT PRODUCE HEAT

DO NOT PLACE THIS UNIT IN ENVIRONMENTS WHICH CONTAIN HIGH LEVELS OF DUST, HEAT, MOISTURE OR VIBRATION

THIS UNIT IS DEVELOPED FOR INDOOR USE ONLY. DO NOT USE IT OUTDOORS

PLACE THE UNIT ON A STABLE BASE OR MOUNT IT IN A STABLE RACK

ONLY USE ATTACHMENTS & ACCESSORIES SPECIFIED BY THE MANUFACTURER

UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME

ONLY CONNECT THIS UNIT TO A MAINS SOCKET OUTLET WITH PROTECTIVE EARTHING CONNECTION

THE MAINS PLUG OR APPLIANCE COUPLER IS USED AS THE DISCONNECT DEVICE, SO THE DISCONNECT DEVICE SHALL BE READILY OPERABLE

USE THE APPARATUS ONLY IN MODERATE CLIMATES



CAUTION - SERVICING

This product contains no user serviceable parts. Refer all servicing to qualified service personnel. Do not perform any servicing (unless you are qualified to)



EC DECLARATION OF CONFORMITY

This product conforms to all the essential requirements and further relevant specifications described in following directives: 2014/30/EU (EMC), 2014/35/EU (LVD) & 2014/53/EU (RED).



WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

The WEEE marking indicates that this product should not be disposed with regular household waste at the end of its life cycle. This regulation is created to prevent any possible harm to the environment or human health.

This product is developed and manufactured with high quality materials and components which can be recycled and/or reused. Please dispose this product at your local collection point or recycling centre for electrical and electronic waste. This will make sure that it will be recycled in an environmentally friendly manner, and will help to protect the environment in which we all live.

FCC WARNINGS

This device complies with Part 15 of the FCC rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or change to this equipment. Such modifications or change could void the user's authority to operate the equipment.

This radio transmitter (identify the device by certification number or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

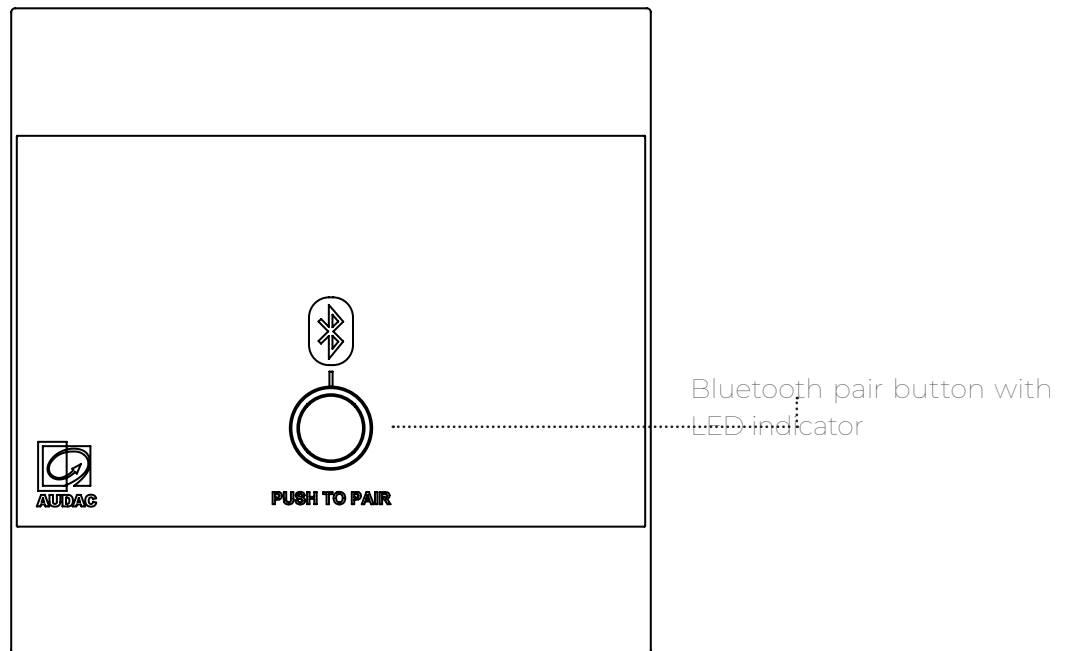
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement.

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Overview front panel

On the front of the wall panel you will find a Bluetooth pair button with a convenient LED indicator to check if it is in pairing mode or already connected to a device. The Bluetooth pairing name can be customized as desired.



Front panel description

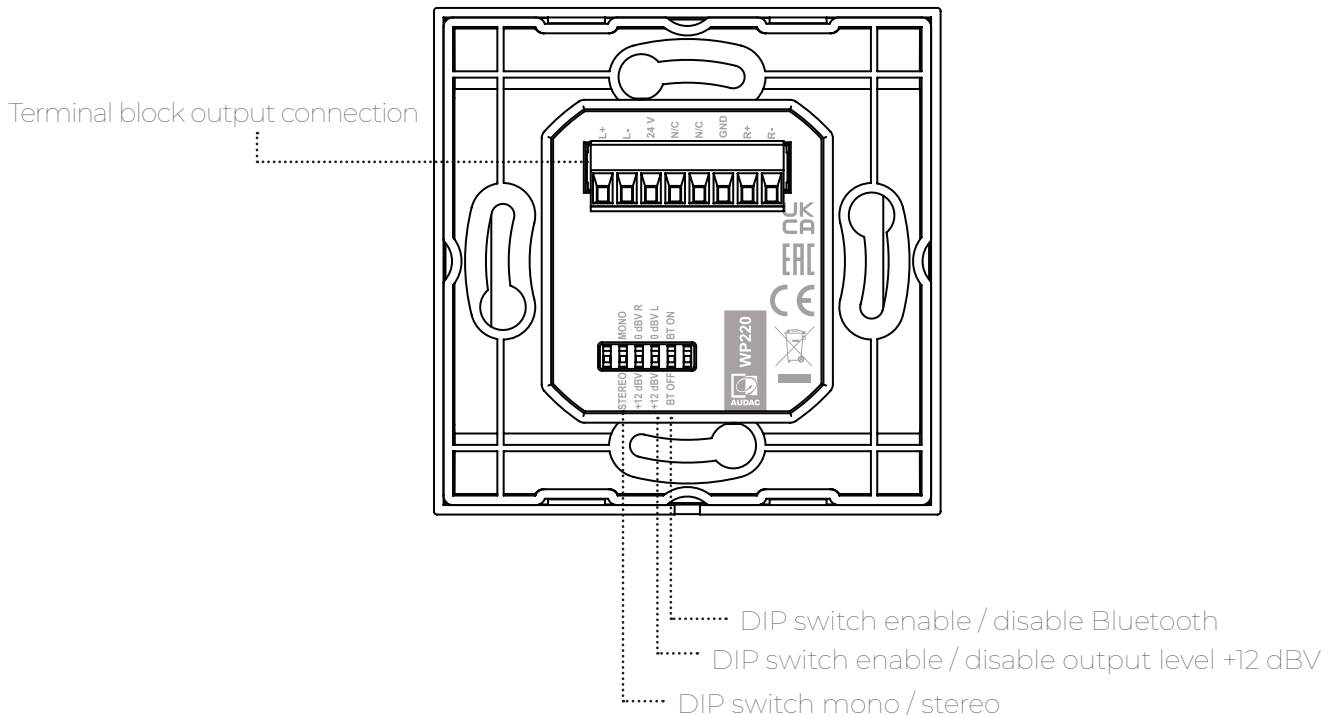
Bluetooth pairing button with LED

Pressing the bluetooth button will put the WP220 into pairing mode. This can be recognized by the blinking of the blue LED. If the wall panel is connected to a device the LED will be constantly lit. If the button is pushed again, the connection will be disconnected and the WP220 will go back into pairing mode.

Overview rear panel



The rear of the WP220 contains an 8-pin Terminal Block connector, which is used to connect the wall panel to the twisted pair cabling. Below of the 8-pin connector are some DIP switches. These switches allow certain functions to be turned on or off, depending on the situation the WP is in.



Rear panel description

8-pin terminal block (3.81 mm pitch) output connection

The rear of the WP220 contains an 8-pin Euro-Terminal Block connector, where the wall panel must be connected to twisted pair cabling. For more information on how to make the connections can be found under “Connecting” in Chapter 3 of this manual.

DIP switches

DIP switch mono / stereo: This switch allows the operation mode to be switched between mono and stereo mode for the Line or Mic signal. When the wall panel is used in mono mode, the input signal applied to both the left and right input signal will be mixed. This mixed signal will be applied to both the left and right outputs.

DIP switch enable / disable output level +12 dBV: When the option of +12 dBV is enabled, the wall panel is compatible with remote input devices. When it is disabled, the wall panel is compatible with standard line inputs (0 dBV)

DIP switch enable / disable Bluetooth: This switch enables or disables the Bluetooth function.

Quick start guide

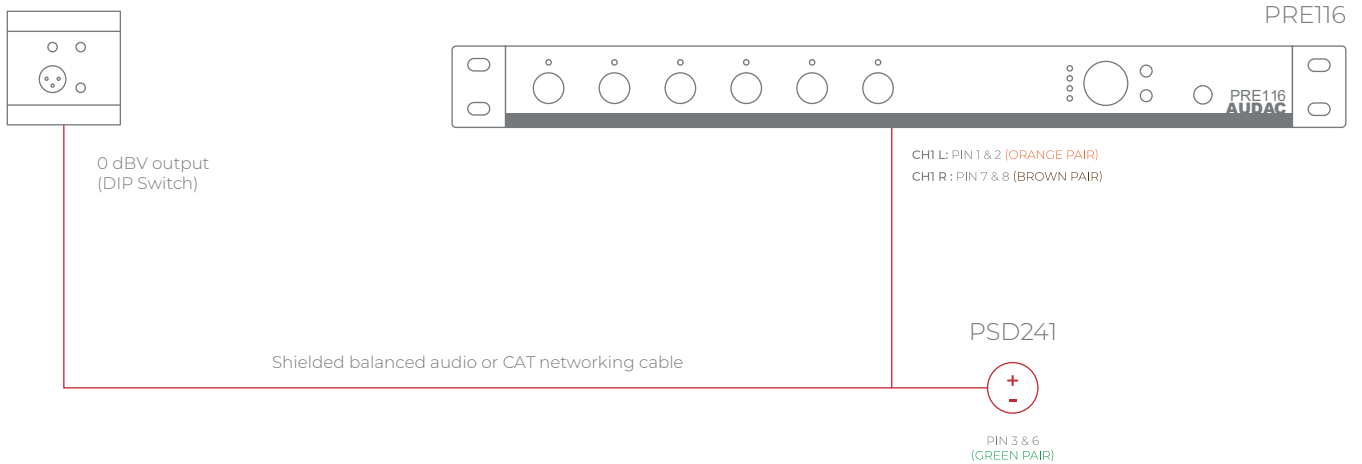
This chapter guides you through the process for a basic setup where a WP220 should be connected to a loudspeaker system with wired network. Install your wall panel on the desired location by means of the optional available WB45S/FS (for solid walls) or WB45S/FG (for hollow walls) installation boxes. Provide a twisted pair cable (CAT5E or better) from the receiving device to the wall panel.

Connect the 8-pin terminal block to a receiving device with a twisted pair cable. After all those connections are made, just plug-in the connectors of the twisted pair cable, plug in the mains power on the loudspeaker side and your system is ready for operation.

You can connect your audio sources to the wall-panel with Bluetooth, and your sounds should be audible through the system.

Connecting a remote input to a line input connection

WP2xx series



Connections

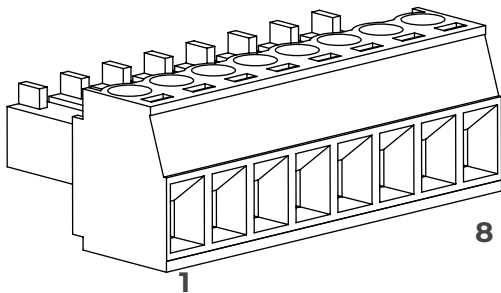
CONNECTION STANDARDS

The in- and output connections for AUDAC audio equipment are performed according to international wiring standards for professional audio equipment

Terminal block (Audio, +24V DC)

For connection to Wall Panels

The 8-pin Euro-Terminal Block on the rear side of the WP2xx should be connected to twisted pair cabling. The maximum cable distance between the input unit and the speaker system can reach up to 100 meters. To ensure proper working of the system, all 8 conductors of the twisted pair cable have to be connected according to the table below. Note that WP2xx has a balanced output, both signal +, signal - and ground (GND) have to be wired.



Pin 1	White-Orange	Left +
Pin 2	Orange	Left -
Pin 3	White-Green	+24V DC
Pin 4	Blue	Not connected
Pin 5	White-Blue	Not connected
Pin 6	Green	GND
Pin 7	White-Brown	Right +
Pin 8	Brown	Right -

Technical specifications



Inputs	Type	Integrated Bluetooth receiver	
	Version	BT5.0	
	Frequency band	2.4 GHz	
Output	Type	Stereo	
	Connector	8-pin terminal block 3.81mm	
	Output level	Switch between 0dBV and 12 dBV	
Power consumption	< 1.5W		
Power supply	17V - 24V		
Phantom power	24V DC (depending on input voltage)		
Noisefloor	-76.5 dBV		
Dimensions	80 x 80 x 52.7 mm (W x H x D)		
Built-In depth	47 mm		
Colours	Black (RAL9005)		
	White (RAL9003)		
Front finish	ABS with glass		
Accessories	Solid wall	WB45S/FS	
	Hollow wall	WB45S/FG	
Compatible devices	ARES5A		
	MTX48 / MTX88		
	AMP523		
	APG20		



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