AUDAC

WP220

PUSH TO PAIR
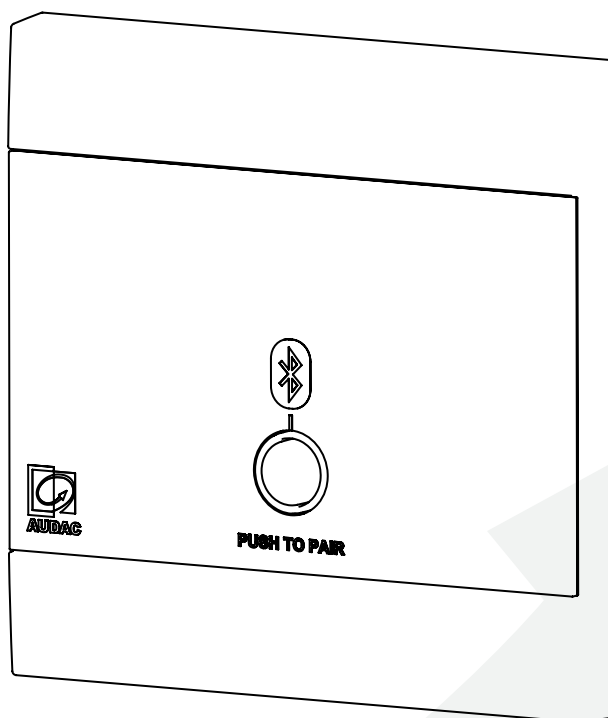
ADDITIONAL INFORMATION

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.

Table of contents

Introcduction

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.

Precautions

AUDAC

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).
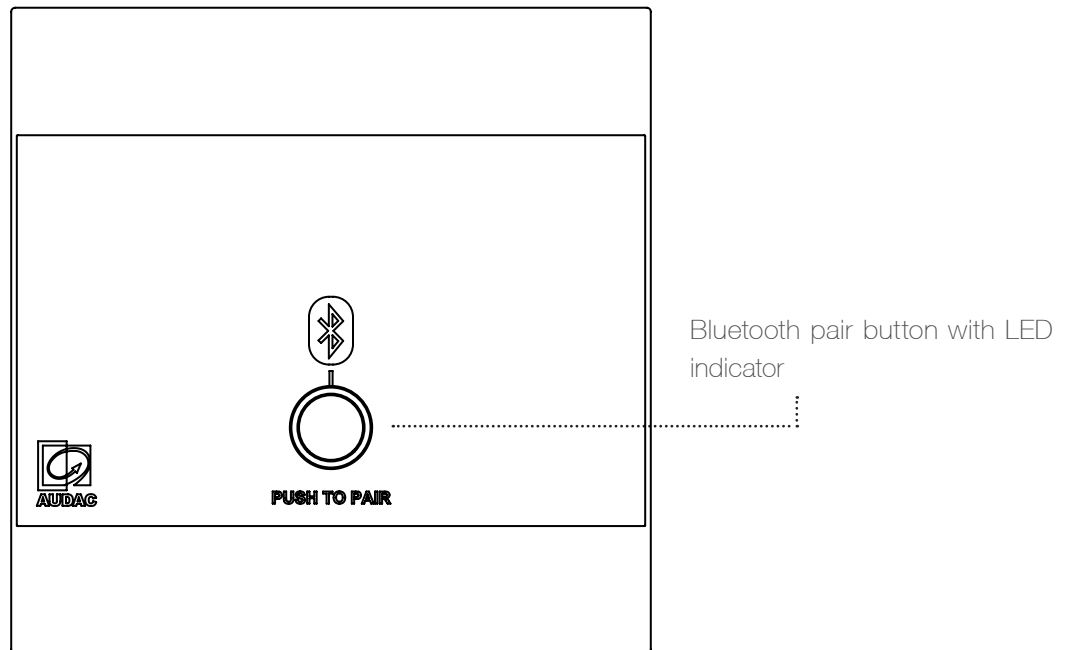
WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

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.

Chapter 1

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.

Bluetooth pair button with LED indicator
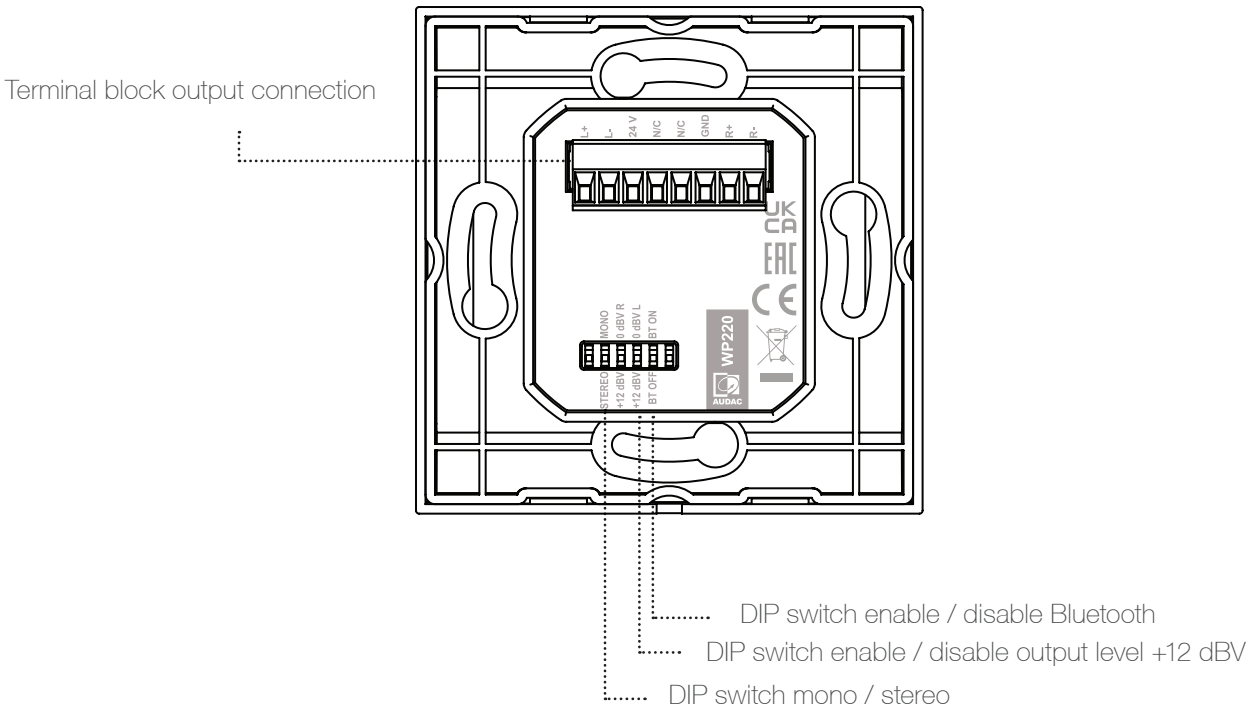
Front panel description

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.

Terminal block output connection

DIP switch enable / disable Bluetooth

DIP switch enable / disable output level +12 dBV

DIP switch mono / stereo

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: The operation mode can be switched between mono and stereo mode with this switch. When the wall panel is used in mono mode, the input signal applied to the left input signal will be available on both 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.
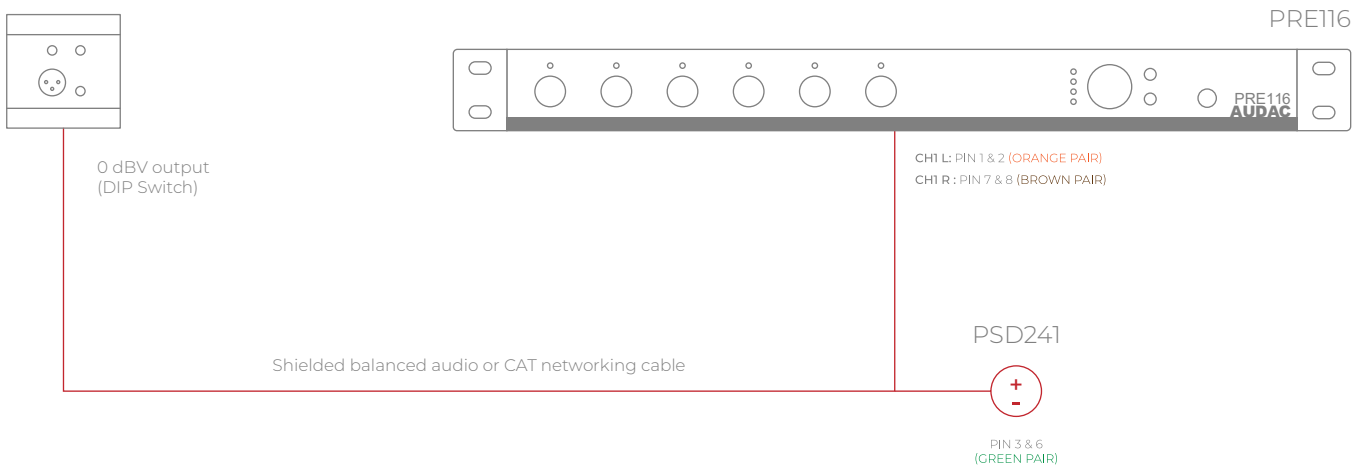
Chapter 2

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.

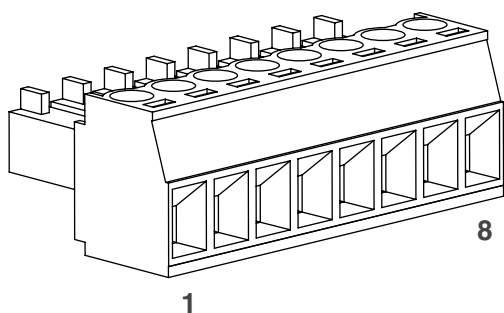## Connecting a remote input to a line input connection

WP2xx series

PRE116

0 dBV output
(DIP Switch)

CH1 L: PIN 1 & 2 (ORANGE PAIR)
CH1 R : PIN 7 & 8 (BROWN PAIR)

PSD241

Shielded balanced audio or CAT networking cable

+
-

PIN 3 & 6
(GREEN PAIR)

Chapter 3

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 WP220 should be connected to twisted pair cabling. The maximum cable distance between the input unit and the speaker system can reach up to 100 meter. To ensure a proper working of the system, all 8 conductors of the twisted pair cable have to be connected according to the table below.

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
Accessoiries		Solid wall	WB45S/FS
		Hollow wall	WB45S/FG
Compatible devices			ARES5A
			MTX48 / MTX88
			AMP523
			APG20