



PULSEAUDIO™

30W, 2 CHANNEL, IN-WALL  
ADDRESSABLE BLUETOOTH

# AMPLIFIER



**PART NUMBER PA230BWA**

In-wall addressable Bluetooth audio receiver with a built in 2x30W amplifier

[vanco1.com](http://vanco1.com) | 800.626.6445

# DEAR CUSTOMER

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

THIS PRODUCT IS 100% INSPECTED AND TESTED IN THE UNITED STATES TO VERIFY PERFORMANCE PARAMETERS.

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## WARNING

1. Do not install or place this unit in a built-in cabinet, or other confined space without adequate ventilation.
2. To prevent risk of electrical shock or fire hazard, due to overheating do not obstruct unit's ventilation openings.
3. Do not install near any source of heat, including other units that may produce heat.
4. Do not place unit near flames.
5. Only clean unit with a dry cloth.
6. Unplug unit during lightning storms or when not used for an extended period of time.
7. Protect the power cord from being walked on or pinched, particularly at the plugs.
8. Use unit only with accessories specified by the manufacturer.
9. Refer all servicing to qualified personnel.

The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Vanco International, LLC is under license. Other trademarks and trade names are those of their respective owners.

## ◦ FEATURES

The PulseAudio PA230BWA is an in-wall addressable Bluetooth audio receiver with a built in 2x30W amplifier in a single gang wall plate form factor, that creates a simple distributed audio system to stream music over Bluetooth. Equipped with a Class D, 60 watt in-wall power amplifier that supports 4 Ohm and 8 ohm speakers. Features two ways of connectivity including a stereo input (3.5mm jack), and Bluetooth 5.0 for a wireless connection. Automatically switches sources with the priority for Bluetooth connectivity. Install in one zone with the ability to install multiple units in one building, as each unit can be uniquely addressable. Connect the PA230BWA to a computer to address the ID and password to allow for multiple and unique amplifiers on the same site without issue! For an amplified 2 channel setup that is simple to operate with a clean look, the PA230BWA is a great solution to play and control music from your phone, tablet, or computer to an amplified single zone.

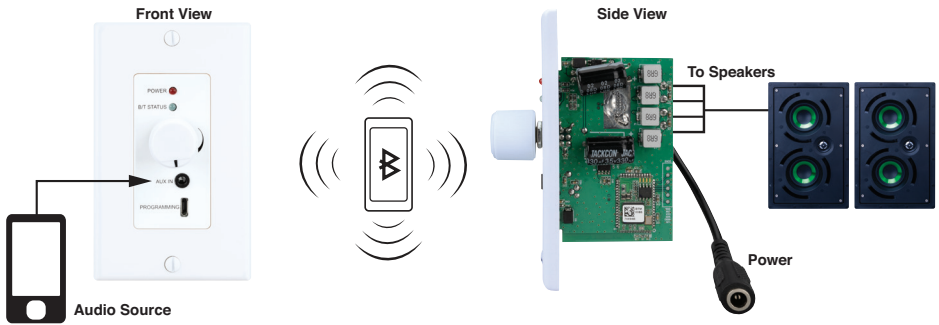
## ◦ 30W, 2 Channel In-Wall Wi-Fi Streaming Amplifier Part # PA230BWA

- 2x30W Class D Wall Plate Amplifier with Bluetooth® Wireless Technology
- Bluetooth v5.0 with apt-X
- Programmable ID and password through dedicated software
- 3.5mm analog stereo input
- 4 Ohm/8 Ohm stable
- Supports auto source switching with priority for Bluetooth® enabled source
- Fits easily into a single gang low-voltage box
- Dimensions: 1.6" W x 3.2" D x 4.4" H

## ◦ PACKAGE CONTENTS

- PA230BWA Bluetooth Wall Plate Amplifier
- Single gang white decora wall plate with screws
- 24V Power Supply
- Micro USB to USB A Cable
- Product Manual

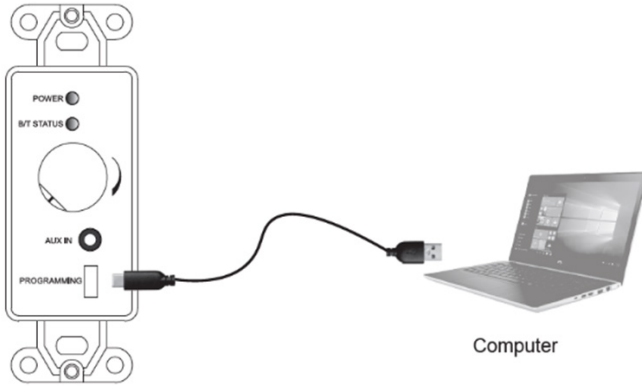
## ◦ CONNECT AND OPERATE



NOTE: Ensure all speaker(s) and power wires are run in accordance with local laws and regulations. Before inserting the amplifier into the electrical box and wall, either note or remove the Bluetooth password found on the sticker on the back of the unit.

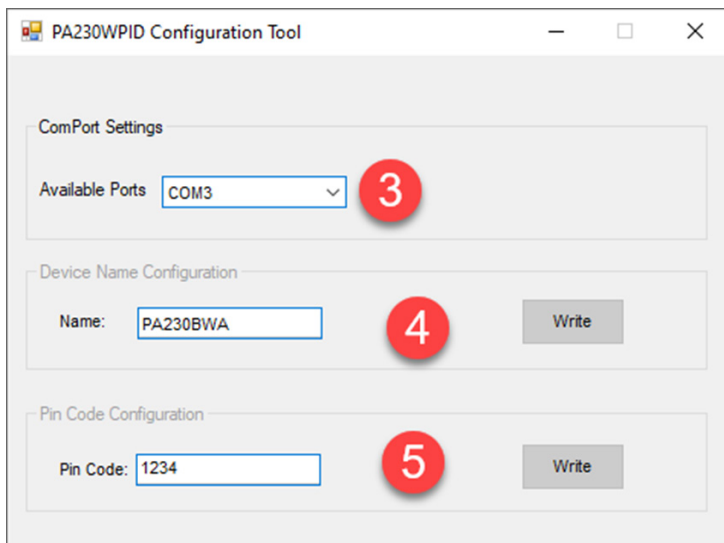
1. Trace and cut out a single-gang hole in a wall and insert a single gang electrical box
2. Connect speaker and power cables while making sure that power is not active and the unit is turned off by turning the rotary dial counter-clockwise
3. Install the PA230BWA into the electrical box in the wall
4. Connect power on the opposite end and turn on the unit by turning the volume knob clockwise
5. Bluetooth (BT) status LED will quickly blink and will be in pairing mode
6. Search and connect to the Bluetooth labeled: "Pulse BT"
7. Enter the password that was found on the sticker on the back of the unit before installing into the wall
8. For Aux-In source, plug-in audio cable and play

## ◦ CONFIGURATION DEVICE NAME AND PASSWORD



1. Connect a Micro USB Cable from the PA230BWA to a computer's USB port
2. Launch the PA230BWA Configuration Software tool found on the product page at [www.vanco1.com](http://www.vanco1.com) (under the downloads tab)
3. Select the corresponding Com Port from the drop-down menu
4. Enter the new device name and click Write
5. Enter a pin code/password that will be used to pair the PA230BWA to a Bluetooth device, and click Write

NOTE: A default password will be provided on a label on the unit



## ○ SPECIFICATIONS

|                           |  |
|---------------------------|--|
| Audio Inputs .....        | Bluetooth v5.0 with apt-X; Stereo<br>3.5mm |
| Range.....                | 30M max, open space                        |
| Amplifier Type.....       | Class D                                    |
| Power Output.....         | 30W per channel (@RL= 4 ohm)               |
| THD+N.....                | 1% (@RL 4ohm, f=1kHz)                      |
| Min. Load Resistance..... | 4 ohm                                      |
| Power Source .....        | 24DVC                                      |
| Audio Priority .....      | Bluetooth > Aux In                         |
| Weight .....              | 0.8 lbs                                    |
| Dimensions.....           | 1.6" W x 3.2" D x 4.4" H                   |

## ○ SAFETY AND NOTICE

The PA230BWA has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment, the PA230BWA should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit
- Do not attempt to service this unit yourself, except where explained in this manual
- Provide proper ventilation and air circulation and do not use near water
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface
- Use only the power adapter and power cords and connection cables designed for this unit
- Do not use liquid or aerosol cleaners to clean this unit
- Always unplug the power to the device before cleaning

## o LIMITED WARRANTY

With the exceptions noted in the next paragraph, Vanco warrants to the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a period of two years from the date of purchase. Should this product, in Vanco's opinion, prove defective within this warranty period, Vanco, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of Vanco. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations, improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.

Items integrated into Vanco products that are made by other manufacturers, notably computer hard drives and liquid crystal display panels, are limited to the term of the warranty offered by the respective manufacturers. Such specific warranties are available upon request to Vanco. A surge protector, power conditioner unit, or an uninterruptible power supply must be installed in the electrical circuit to protect against power surges.

If repairs are needed during the warranty period the purchaser will be required to provide a sales receipt/sales invoice or other acceptable proof of purchase to the seller of this equipment. The seller will then contact Vanco regarding warranty repair or replacement.

## o TECHNICAL SUPPORT

In case of problems, please contact Vanco Technical Support by dialing 1-800-626-6445. You can also email technical support issues to [techsupport@vanco1.com](mailto:techsupport@vanco1.com). When calling, please have the Model Number, Serial Number (affixed to the bottom of the unit) and Invoice available for reference during the call. Please read this Instruction Manual prior to calling or installing this unit, since it will familiarize you with the capabilities of this product and its proper installation. All active electronic products are 100% inspected and tested to insure highest product quality and trouble-free installation and operation. The testing process utilizes the types of high-definition sources and displays typically installed for entertainment and home theatre applications. For additional information please visit [www.vanco1.com](http://www.vanco1.com).

## o LIABILITY STATEMENT

Every effort has been made to ensure that this product is free of defects. The manufacturer of this product cannot be held liable for the use of this hardware or any direct or indirect consequential damages arising from its use. It is the responsibility of the user and installer of the hardware to check that it is suitable for their requirements and that it is installed correctly. All rights are reserved. No parts of this manual may be reproduced or transmitted by any form or means electronic or mechanical, including photocopying, recording or by any information storage or retrieval system without the written consent of the publisher. Manufacturer reserves the right to revise any of its hardware and software following its policy to modify and/or improve its products where necessary or desirable. This statement does not affect the legal rights of the user in any way.

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