INTEGRATED AMPLIFIER

232
Operation manual

Dear music lover,

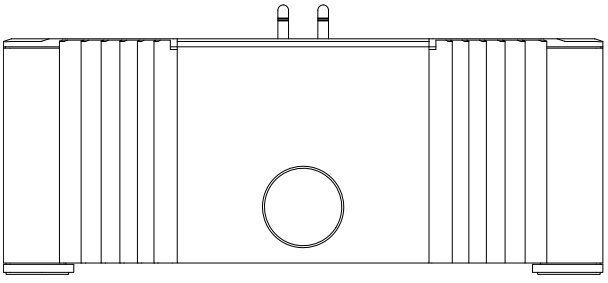
Thank you for choosing this Burmester audio component.
We sincerely appreciate your trust in us.

You have chosen a product that combines absolute fidelity and uncompromising quality with technical innovation. Before using the device for the first time, we recommend that you read through the entire operation manual at least once so that you can make full use of the capabilities of this exceptional audio device. Should you still have questions, please speak to your dealer or contact us directly. We're always happy to discuss your special requests, no matter how unusual. We love a good technical challenge.

We wish you an exceptional listening experience.

Your Burmester team

1. About this device



The new Burmester 232 integrated amplifier from our Classic Line meets all the requirements asked of modern amplifier products. It combines an extraordinary functional variety with the peerless sound quality Burmester is renowned for worldwide.

Like a multi-purpose Swiss army knife, the 232 features a multitude of functions and broad compatibility options. A powerful integrated streaming amplifier that provides the perfect arrangement of classical notes and digital melodies. It can operate as a fully analog device, but is also equally adept at handling a range of different digital sources.

Features:

Control knob with haptic feedback

Modular integrated amplifier, DAC and phono MC

Can be used as a preamplifier

Connection with Qobuz Connect, TIDAL Connect and Spotify Connect

Roon Ready

Apple AirPlay

Music playback from a USB storage medium

Internet radio

Can be operated via mobile Burmester Conduct app for iOS and Android, from the device or using the Burmester remote control

2. General information

2.1. ABOUT THIS OPERATION MANUAL

This operation manual describes the installation, connection and startup of the Burmester 232 integrated amplifier.

Please read this operation manual in full and keep it in a safe place.

2.2. MEDIA DATABASE

LEARN MORE

Additional material such as images and product information is available in our media database.

2.3. INTENDED USE

This device is intended for use in home music systems.

2.4. PERMISSIBLE OPERATING CONDITIONS

Please only ever use your Burmester device under the following conditions:

Maximum altitude: 2000 m

Humidity < 50 %

Temperature range: 20-30 ° C

2.5. MEANING OF WARNING SYMBOLS AND WORDS

This document uses the following warning symbols and words:

The general hazard symbol, in conjunction with the warning words CAUTION, WARNING or DANGER, warns of the risk of serious injury.

Follow all of the subsequent instructions to avoid injury or death.

The general mandatory symbol in conjunction with the word ATTENTION indicates a hazard that could damage or destroy the device.

The lightning symbol, in conjunction with the warning word DANGER, warns of potentially fatal electrical voltage.

This warning symbol, in conjunction with the warning word CAUTION, warns of high-intensity sound.

ATTENTION:

Indicates a hazard that could damage or destroy the device.

CAUTION:

Indicates a hazard that poses a low or moderate risk of injury.

WARNING:

Indicates a hazard that could cause serious injury or death.

DANGER:

Indicates a hazard that will lead directly to death or serious injury.

2.6. IMPORTANT INFORMATION

Caution! Risk of injury to children

This device poses various injury risks if used improperly. Never leave your children unattended with the device. This device is not intended for use by children.

Attention! Operation during thunderstorms

During thunderstorms and when there is a risk of lightning, disconnect the device from the power supply. It is not sufficient to switch off the mains switch on the back of the device. Unplug the power cable from the device or the mains socket. To be safe, also unplug all connected components from the power supply.

Danger! Opening the device

There are no parts inside the device that can be serviced by the user. Life-threatening voltages are present inside the housing! To fully disconnect the device from the power supply, you have to disconnect the power plug.

Do not open the device.

Danger! Hazardous voltages

The loudspeaker outputs on a power amplifier can carry potentially fatal voltages.

Do not touch the loudspeaker connectors on the device and the loudspeaker.

Warning! Danger due to included batteries

The Burmester remote control contains batteries. Do not expose them to excessive heat.

Improper use poses a risk of overheating, fire, explosion and the production of smoke and gas.

Have the batteries replaced by your dealer.

Swallowing the batteries can be fatal! Always keep children away from small parts that can be swallowed.

Caution! High-intensity sound

Loud output signals can damage your hearing.

Set the connected amplifier to a low volume before switching it on. Avoid listening at high volume levels for long periods of time.

Attention! Replacing faulty fuses

If you cannot switch on the device even though the mains voltage is connected, this may be due to a faulty fuse. This can have various causes. Have the device checked by your Burmester dealer. Only authorised personnel are permitted to change the fuses.

2.7. WHAT CAN I DO WITH THE 232?

The Burmester 232 is an integrated amplifier.

The 232 enables playback from analog sources. Fitted with the optional **digital module**, it includes digital inputs and streaming functionality and supports Apple AirPlay, TIDAL Connect and Spotify Connect.

The 232 is also available with an optional **phono module** for connecting record players with moving coil (MC) systems.

You can use the 232 **as a preamplifier** for separate power amplifiers and connect an active subwoofer.

The 232 can be operated on the device itself using the **haptic adaptive control knob** and **touch-buttons**, with the included **remote control**, or with the **Burmester Conduct app**.

3. Unpacking, installingand connecting the 232

3.1. NOTES ON UNPACKING

Carefully remove the device from the packaging.
Remove all the packaging materials and padding from the device.

Attention! Damaging the housing

To avoid damaging the housing, do not use any pointed or sharp objects to open the packaging.

Caution! Risk of injury due to heavy weight

The device is very heavy and can cause injury if it falls.

The device should only be unpacked and set up by persons who are experienced in handling heavy loads. If necessary, have a second person help you unpack and set up the device.

Warning! Suffocation hazard!

Some of the pieces are delivered in fitted fabric covers and plastic bags. Remove the packaging from the vicinity of children.

The remote control contains batteries. Keep children away from small parts that can be swallowed. Never leave children alone with the device unattended.

Packaging

Keep the packaging for later transport.

SCOPE OF DELIVERY

Please check the scope of delivery for completeness and damage.

If parts of the delivery are missing or if you notice any damage when unpacking the device, please do not connect them and consult your Burmester dealer instead.

Packaging containing the 232
Power cable
Remote control
XLR/RCA adapter (2)
Quick start guide
Warranty certificate
W-LAN antennas (Excludes some product variants for specific countries)

3.2. NOTES ON INSTALLATION

Place the 232 in a suitable location. Please consult the notes below for more information.

Attention! Danger due to improper installation.

Please consider the following aspects when choosing the installation site:

Only place the device on level and load-bearing surfaces.

The device requires ventilation from below. This is ensured by the height of the feet. Place it only on firm surfaces, not on high-pile carpet.

Never use the device outdoors.

Avoid exposure to direct sunlight, excessive heat, cold, moisture and dust.

Ensure adequate ventilation. Never place the device on an enclosed shelf.

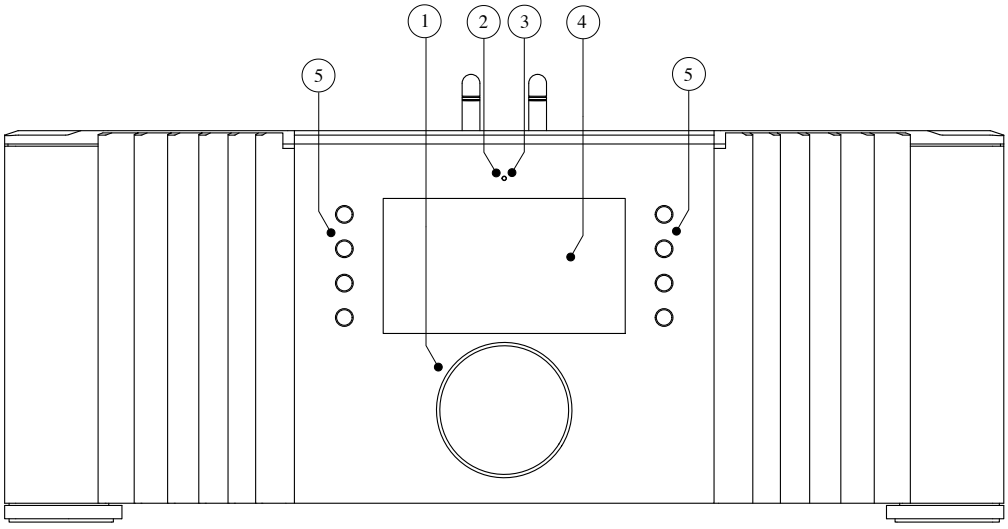
Do not cover the slots or openings on the device. These are important for ventilation.

Do not expose the device to dripping or splashing water, and do not place containers of liquid on the device.

Never place open fire sources, such as lit candles, on the device.

3.3. OVERVIEW OF THE 232

FRONT OF THE 232



(1) Rotary encoder

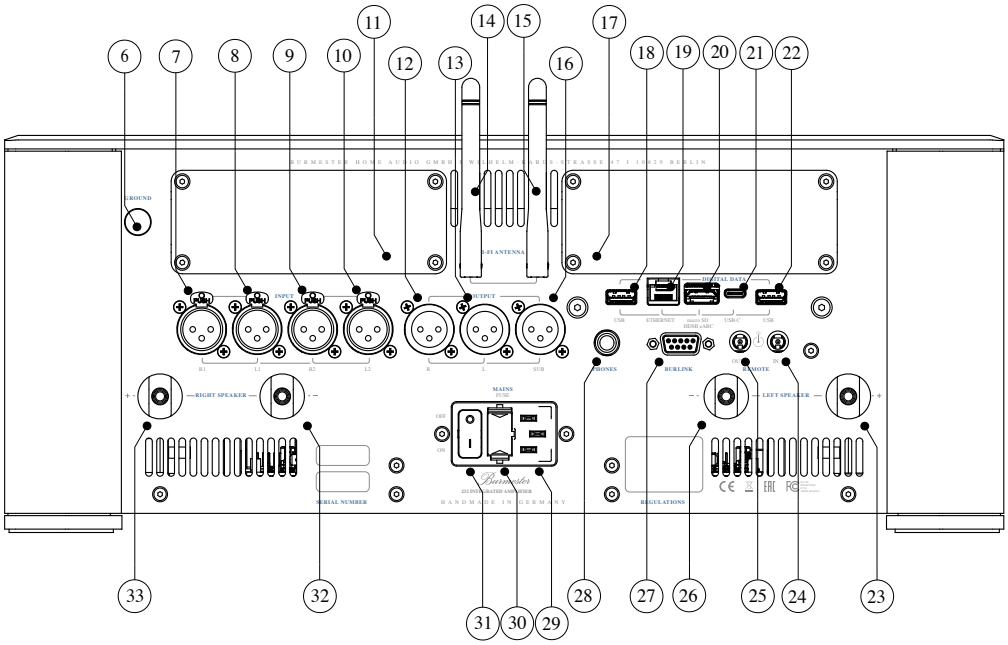
(2) Power LED

(3) IR sensor

(4) Display

(5) Touch buttons

REAR OF THE 232



(6) Earthing screw

(7) Balanced analog input 1, right channel

(8) Balanced analog input 1, left channel

(9) Balanced analog input 2, right channel

(10) Balanced analog input 2, left channel

(11) Phono module slot

(12) Balanced analog output (pre-out), right channel

(13) Balanced analog output (pre-out), left channel

(14) Wi-Fi antennas

(20) HDMI ARC input / microSD slot

(21) USB interface (USB Audio)

(22) USB interface (USB1 storage)

(23) Positive (+) loudspeaker output, left channel

(24) Remote-out socket

(25) Remote-in socket

(26) Negative (-) loudspeaker output, left channel

(27) BurLink connection

(28) Headphone output

(29) Mains socket

(30) Mains fuse

(15) Wi-Fi antennas

(16) Balanced subwoofer output (sub-out),
mono

(17) Digital module slot

(18) USB interface (USB2 storage)

(19) Ethernet/LAN

(31) Mains switch

(32) Negative (-) loudspeaker output, right channel

(33) Positive (+) loudspeaker output, right channel

3.4. POWER CONNECTION

Attention! Device temperature after unpacking

If the temperature is too high or too low, this can cause the device to malfunction.

After unpacking the device, leave it to sit in the room for a time before connecting and switching it on.

Danger! Power connection and protective earth conductor

Use the 3-wire power cable supplied with the device to connect it to the power supply. The protective earth contact must not be rendered ineffective.

The voltage is set to the national standard for the country in which you purchased your Burmester device at the factory. If your device is to be operated with a different mains voltage than the one set at the factory, please contact your Burmester dealer. They know which modifications have to be made to the device.

Before putting the device into operation, check to see whether the power voltage specified on the back panel of the device matches the mains voltage in your household.

If you are uncertain of the mains voltage at your installation site, please make sure you check with your authorised Burmester dealer prior to installation.

CONNECTING THE POWER CABLE

1. Before connecting the device, make sure that the mains switch (31) on the back of the device is in the “OFF” position.

2. Plug the enclosed power cable into the mains socket (29) on the back of the 232.

3. Plug the power plug into a nearby socket.

Note: route the power cable in such a way that it cannot be damaged. Do not use the power cable if it has been damaged.

3.5. CONNECTING THE LOUDSPEAKERS

The 232 features solid binding posts for holding the loudspeaker cables securely. Use loudspeaker cables terminated with spade lugs. Proceed as follows to connect the loudspeakers:

Switch off the 232.

Connect the loudspeaker cables according to your operation manual and route them to the 232.

Release the loudspeaker’s binding posts on the 232 (23), (26), (32), (33) and slide the spade lug for each loudspeaker cable under them.

Make sure that the polarity of the connections is correct in each case. It is important that you make all connections in phase:

Positive output of the power amplifier (+) = positive input of the loudspeaker (+)

Negative output of the power amplifier (-) = negative input of the loudspeaker (-)

Screw the spade lugs for the loudspeaker cables hand-tight using the loudspeaker's binding posts. Make sure that the cable connections are secure.

Attention!

Make sure that no conductive metal parts of the loudspeaker cables or the spade lugs make contact with parts of the 232 housing.

LOUDSPEAKER CABLES

Burmester recommends using cables with a large cross-section to connect the loudspeakers to the power amplifier. A large cross-section allows you to maintain the damping factor of the power amplifiers for optimal control of the loudspeakers.

Best results are achieved by using original Burmester loudspeaker cables, which have the same electrical and tonal characteristics as the internal wiring of Burmester loudspeakers and amplifiers.

Caution!

The insulation of the speaker cable must be equivalent to that of the original Burmester speaker cable and must at least meet the flammability requirements according to VW-1.

Please consult the manufacturer or your authorised dealer for further information.

3.6. SWITCHING THE 232 ON AND OFF

Once you have installed the 232 and connected it to the mains and loudspeakers, you can switch it on.

Move the mains switch (**31**) on the rear of the device to the "ON" position. The 232 is now in standby mode.

To switch the 232 on and off from standby mode, press the haptic adaptive rotary encoder or the button (**1**) on the remote control.

4. Configuring the 232

4.1. CONFIGURING THE 232

You can set the 232 to your individual preferences. You can do so in the **Settings** area of the Burmester Conduct app or on the device.

CONDUCT APP AND INFORMATION

You can find the Conduct app for configuring and using the 232 here:

Download on the App Store

GET IT ON Google Play

You can find more information in the chapters **Settings** and **Operating the 232** in this guide.

4.2. LIBRARY (AUDIO SOURCES)

In the library, you can select from the available audio sources.
To select the phono input, the optional phono module must be installed.
The optional digital module must be installed before you can select digital sources.

QOBUZ CONNECT

Your device supports Qobuz Connect.

Enjoy seamless high-resolution audio streaming directly to your compatible playback device. Use your smartphone, tablet or computer as a remote control for Qobuz.

1. Play a track and tap the “Now Playing” bar

2. Tap to select the device in the bottom left corner

3. Select your device for playback

ROON READY

Your device is Roon Ready.

Being Roon Ready means that Burmester uses Roon streaming technology, for an incredible user interface, simple setup, rock-solid daily reliability, and the highest levels of audio performance, without compromise.

1 Open the Roon app so that it connects to your Roon Core on the same network

2 Tap the speaker icon in the lower right corner

3 Select your device

4 Select music from your library and start playback

SPOTIFY CONNECT

Your device supports Spotify Connect

When connecting to the speaker for the first time, all devices need to be on the same WiFi.

1. Open Spotify and play something

2. Tap to select the device in the bottom right corner

3. Select your device for playback

TIDAL CONNECT

Your device supports TIDAL Connect.

1. Play a track and tap the “Now Playing” bar

2. Tap to select the device in the top right corner

3. Select your device for playback

Note: you require a user account/subscription to use Qobuz/TIDAL/Spotify Connect and Roon.

AIRPLAY

Your device supports AirPlay.

Apple AirPlay lets you enjoy your favourite music or podcasts in every room with your home audio system and loudspeakers – either with a touch of your finger or through a simple prompt to Siri – directly from your iPhone, iPad, HomePod, HomePod mini or Apple TV.

How to use AirPlay on your device:

• Make sure that your device is connected to the network

• Open the app from which you want to use AirPlay on your IPhone or IPad

• Tap the icon

• Select your device as the AirPlay device

We recommend getting the latest iOS version to use AirPlay with your Burmester device.

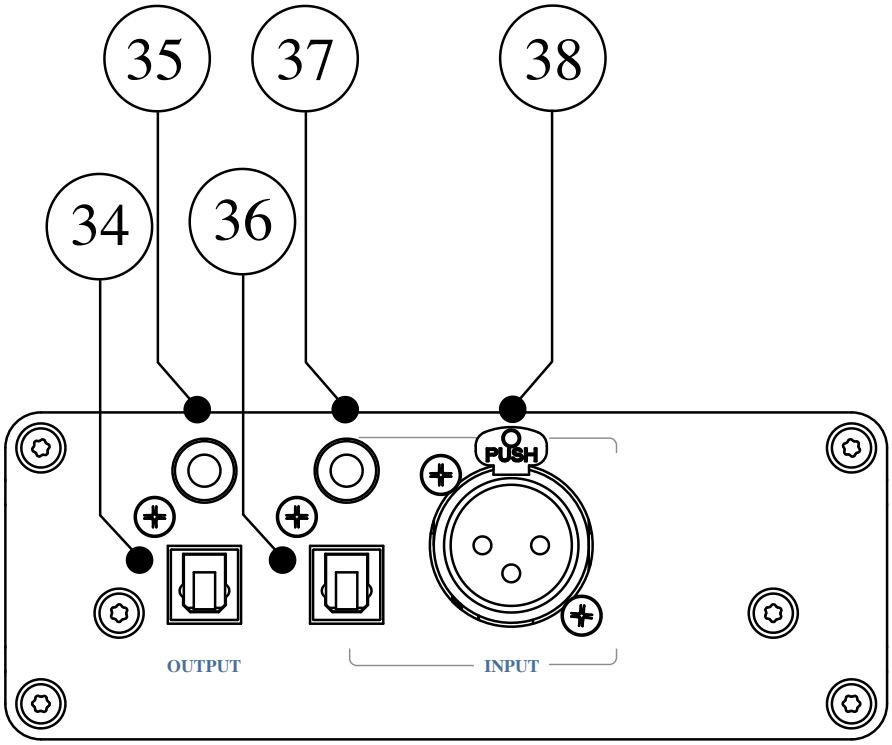
INTERNET RADIO

Your device includes an integrated web radio player. Internet radio metadata is shown on the display. You can also operate the web radio player via the Conduct app.

4.3. THE DIGITAL MODULE

To play audio from digital sources and use streaming services, internet radio, LAN, Bluetooth, Wi-Fi and AirPlay interfaces, you require the optional digital module.

The digital module is inserted and screwed into the module slot (17). Have your dealer install the module.



(34) Digital output, optical

(35) Digital output, coaxial

(36) Digital input, optical

(37) Digital input, coaxial

(38) Balanced electrical digital input

INSTALLING THE DIGITAL MODULE

Instructions for installing the DAC module can be found in a separate installation manual.

DIGITAL INPUTS, DIGITAL INTERFACES, AND NETWORK DEVICES

To connect a source device to one of the digital inputs or interfaces, proceed as follows:

1. Switch off all the devices. This is not necessary for connecting storage media or connecting to other network devices.

2. Connect your digital source devices to the desired 232 inputs.

3. Only switch on the 232 if you are sure that your downstream devices are set to a low volume, where applicable.

4. For playback, select the connected source directly on the 232 or using the remote control, the web UI or the Conduct app.

Note: if your digital source devices do not have the appropriate outputs, please consult your dealer for more information.

Bluetooth

Use Bluetooth as an audio source after connecting your source device to your Burmester device.

You can find more information about this in the **Settings** section below.

Massstorage

You may choose between the storage media on the USB1 (22), USB2 (18) or SD1 (20) ports, navigate through the folders you have created, and play audio files directly. The supported formats are outlined in the technical data section below.

When a file is played, all subsequent tracks in the same folder will play automatically in sequence. Shuffle mode can be applied to the entire folder contents (excluding subfolders). A repeat function is available for individual files.

Connected media can also be used as a network drive. The relevant folder on the same network can be identified by the name composed of Burmester plus the device name (example: Burmester 232 Integrated Amplifier – 2837fjw).

The username is: burmester
The default password is also: burmester
You can set your own password in the settings.

When formatting, use the file systems NTFS, FAT32, or ext2/3/4 up to their maximum supported size. The exFAT file system is not supported. Storage media that require more power than the USB-A ports can provide may need an external power supply.

USB Audio

After selecting USB Audio, connect your device directly to your PC to use it as a playback device. The USB-C (21) port to be used for this purpose is designed exclusively for this application, not for connecting storage media. In your PC's audio settings, select the device named Source/Sink as the default output device. Select a supported sample rate. The options are 48 kHz, 96 kHz, 192 kHz, and 384 kHz, each with 32-bit resolution.

UPnP

Browse and play libraries organized by albums, artists, or genres. Open playlists on Burmester network devices (111, 151, 151 MKII, or 161) or on similar UPnP-enabled servers. Stream and listen to the stored audio files via your device on the same network.

When you start playing a file, all subsequent tracks in the list play automatically in sequence. You can apply shuffle mode to the entire list. You can use the repeat function for individual files or the entire list.

Burmester Server

Get direct access to Burmester server models (111, 151, 151 MK2, 161) on the network. Open playlists and play audio files stored there via your device.

DIGITAL OUTPUTS

The 232 has 2 digital outputs (34), (35).

The audio signal of the selected digital audio source is applied at the digital outputs. The digital output signal cannot be controlled.

To connect a device to one of the digital outputs, proceed as follows:

1. Switch off all the devices.

2. Connect your digital devices to the desired 232 outputs.

3. Only switch on the 232 if you are sure that your downstream devices are set to a low volume, where applicable.

Attention!

The output signal is output at the maximum level at the digital outputs of the 232. When used improperly, this can lead to the destruction of the connected devices and damage to your hearing.

Note: audio signals from the HDMI-ARC are not sent to the optical-Out.

4.4. ANALOG AUDIO INPUTS

LINE INPUTS

For the connection of analog audio sources, two balanced line level inputs are available on the 232.

To connect an analog source device to the line inputs L1 (7), (8) and L2 (9), (10), proceed as follows:

1. Switch off all the devices.

2. Connect the right and left channel of your analog source device to the desired 232 inputs.

3. For playback, select the connected source directly on the 232 or using the remote control, the web UI or the Conduct app.

Make sure that the connectors are connected securely.

4.5. ANALOG AUDIO OUTPUTS

PREAMPLIFIER OUTPUT/PRE-OUT (OUTPUTS R AND L)

At the balanced preamplifier output (12) (13), the audio signal of the selected device is available for the connection of separate power amplifiers.

The 232 can be used as an audio source for preamplifiers or as a preamplifier for external power amplifiers. For this purpose, it is possible to output the output signal on the pre-out with a fixed or variable level.

More information can be found in the chapter Settings.

The use of separate Burmester power amplifiers further increases playback quality. Your dealer will be happy to advise you.

SUBWOOFER OUTPUT (SUB-OUT)

At the balanced sub-out (16), the audio signal of the selected device is available in mono for the connection of an external, active subwoofer.

Note: to ensure the connection is correct, refer to the operation manual for the subwoofer used.

To connect a separate power amplifier or subwoofer, proceed as follows:

1. Switch off all the devices.

2. Connect both pre-out outputs (left and right) on the 232 with the relevant inputs on your power amplifier.

3. Connect the sub-out on the 232 with the input of an active subwoofer.

The sub-out can be switched on and off in **Settings**.

Before switching on the devices, make sure that all the connections are made correctly. If the playback volume is low, first make sure that the music signal is free from interference.

ASSIGNMENT OF THE ANALOG INPUTS AND OUTPUTS

The analog inputs and outputs of the 232 are balanced (XLR 3-pin) and have the following pin assignment:

PIN1=GND, PIN2=NEG, PIN3=POS.

For sound-related reasons, the inputs and outputs should be balanced.

UNBALANCED WIRING OF CONNECTION CABLES

For trouble-free operation on power amplifiers or subwoofers with unbalanced inputs, the negative output signal (XLR pin 2) must be connected to earth (XLR pin 1) in the connection cable.

Note: for optimal signal transmission, we recommend using Burmester connection cables. If your source devices do not have the appropriate outputs, you can use adapter cables with the appropriate wiring. Your Burmester dealer will be happy to advise you on your choice.

HEADPHONE OUTPUT

You can connect headphones with a 6.3 mm jack plug (28) to the rear headphone output.

More information can be found in the chapter **Settings**.

4.6. NETWORK CONNECTIONS

LAN CONNECTION

A LAN connection (**19**) for connecting the 232 to a network is available at the rear. You can find instructions on setting up network connections in **Settings**.

Attention!

The Ethernet/LAN connection must only be connected to a home network (LAN network inside the building).

INSTALLING THE WI-FI ANTENNAS

To install the supplied Wi-Fi antennas, remove them from the packaging and carefully connect them to the antenna ports (**14**), (**15**) on the rear of the 232. Then manually screw down the Wi-Fi antennas using the union nut. For optimal Wi-Fi reception, position the antennas upright.

5. Settings

All device settings and customizations are configured in **Settings**.

On the device, you press and turn the haptic adaptive control knob to configure the settings, which are shown on the display.

You can also access the settings using the **Burmester Conduct app**.

Note: if necessary, all the configured settings can be reset to the factory settings under Settings/Maintenance/Factory Reset.

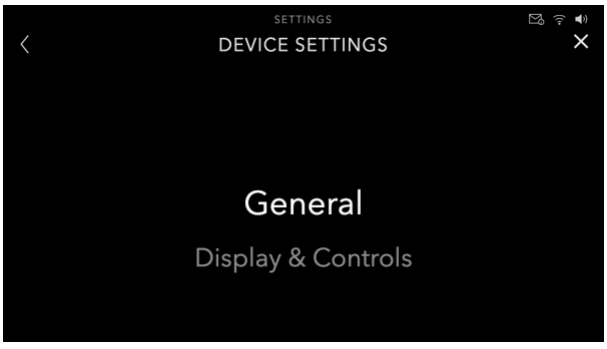
5.1. AN OVERVIEW OF THE SETTINGS

The settings for the device are broken down into the following areas:

Settings/Device Settings	**Device settings**
Settings/Source Manager	**Inputs**
Settings/Output Manager	**Outputs**
Settings/Messages	**Messages**
Settings/Maintenance	**Maintenance**
Settings/About	**Information**
Settings/Bluetooth Manager	**Bluetooth settings**

5.2. DEVICE SETTINGS

GENERAL SETTINGS



Username

Enter a user name. This name appears when you switch on the device, if the welcome text is activated.

Device Name

Here, you enter a device name for the Conduct app and for communicating with other Burmester devices.

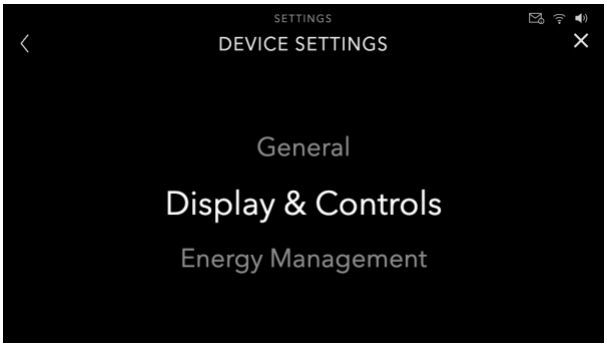
Date & Time

The device receives time information from the internet. If you wish, you can set a different time zone. Select your preferred time format (12h/24h).

Shared folder password

Control access to the network folders you have created on connected storage devices and set a separate access password for them.

USER INTERFACE – DISPLAY & CONTROLS



Display Brightness

Set your desired display brightness.

Display Timeout

Choose whether the display remains permanently switched on or set the time after which it is to switch off.

ENERGY SAVING SETTINGS – ENERGY MANAGEMENT

Standby Mode

Activate Smart-Standby so that your device remains active on the network after being switched off and can be switched on via network connection. Switch on your device using the Burmester Conduct app or apps from supported streaming providers. In addition, the device can be woken from Smart-Standby via the remote connection, by remote control (Bluetooth or IR) and via the adaptive rotary encoder on the front panel.

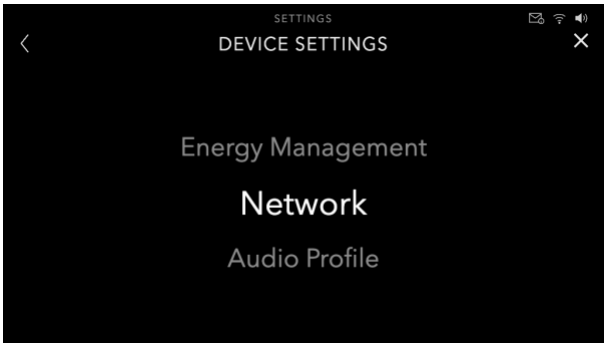
Auto Standby

Energy-saving mode is enabled when the device is delivered. The device switches to standby mode after the selected period of inactivity.

Switch energy-saving mode on and off as required.

Use Idle Time to select the time after which you want the device to switch to standby mode.

NETWORK SETTINGS



Network Information

Shows the IP address of the device and whether a Wi-Fi or LAN connection is established.

Network Setup

Connect the device to a Wi-Fi network from the list of available wireless networks or enter the Wi-Fi name (SSID) of a hidden wireless network manually. Where applicable, you are prompted to select the appropriate encryption (WEP, WPA, etc.).
After entering a password, click “Connect” to connect the device to the network.

If necessary, choose between automatic (DHCP) and manual IP address assignment (static IP).
When using manual address assignment, enter the IP address, gateway and subnet mask.

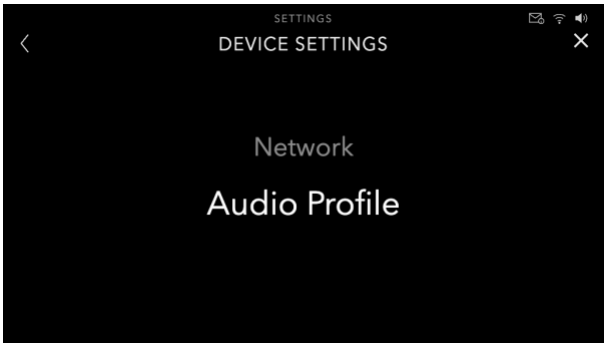
Network Services

The device features an HTTP interface for integration into external control systems. This is an API for integration into professional home automation systems (e.g. Crestron). All available control commands can be viewed and tested directly via the interactive Swagger/OpenAPI documentation at the address provided.

The interface is disabled by default and can be enabled under Network Services via the HTTP API function. Please note that the HTTP interface does not offer separate password protection; you will therefore be asked for additional confirmation upon activation. Once activated, the device can be controlled by all users on the same network.

The documentation can be accessed and commands can be tested at the following address: http://device_ip:3000/api/v1/docs – please replace device_ip with the IP address of your 232.

AUDIO PROFILE



Start Volume

Select the start volume that should be set on your device when it is switched on.

Global DAC Preset

Here you can define global filter characteristics for all digital sources. By selecting the i-symbol using a touch-button, detailed information on the technical functioning and a description of the expected sound character is displayed. The following seven filter characteristics are available:

Linear Phase Fast (LinFast)

Preserves precise phase relationships across all frequencies and uses a very steep filter slope. This ensures maximum frequency accuracy but can lead to pre-ringing with fast transients. Highly precise, analytically oriented reproduction with sharp imaging and clear highs. Transients may sound slightly unnatural with percussive material.

Linear Phase Slow (LinSlow)

Retains linear phase behaviour but uses a gentle filter slope. Reduces ringing compared to steep filters; the highs roll off slightly earlier. Balanced, smooth sound with stable spatial imaging. The high-frequency reproduction appears somewhat subdued, giving the sound a more relaxed character.

Minimum Phase Fast (MinFast)

Prevents pre-ringing by shifting all ringing artefacts behind the transients. Uses a steep filter slope and prioritises the temporal accuracy of impulse reproduction. Immediate, dynamic reproduction with a strong transient impact. Often perceived as particularly natural and lively – especially with rhythmic music.

Minimum Phase Slow (MinSlow)

Avoids pre-ringing and uses a gentle filter slope. Reduces overall ringing at the cost of maximum frequency extension. Warm, fluid and relaxed reproduction. Transients are rendered gently, making extended listening sessions particularly comfortable.

Apodizing Fast (ApoFast)

Reduces pre-ringing introduced by upstream digital filter stages. Uses a steep filter slope to eliminate ringing artefacts prior to conversion. Clear, focused transients with enhanced realism. Often sounds more coherent and natural – particularly with digitally processed source material.

Minimum Phase Fast+ (MinFast+)

An optimised minimum phase fast filter with an improved frequency response near the cut-off frequency. Combines a steep filter slope with reduced distortion near the Nyquist frequency. Precise, controlled reproduction with clean transients. Combines the dynamics of steep filters with a more balanced tonality in the high-frequency range.

Brickwall (Brickwall)

Applies the steepest possible filter slope directly at the Nyquist frequency. Maximises the suppression of ultrasonic components but introduces pronounced ringing. Extremely controlled, tight reproduction. Can sound technical or less fluid depending on the programme material.

5.3. INPUTS – SOURCE MANAGER

To change the settings for a specific input, select it from the list of inputs in the source manager. The parameters that can be configured differ depending on the input.

INPUT SETTINGS

Note: some of the listed settings are not available for every source.

Rename

Enter a name of your choice for the selected input.

Set Gain

If necessary, you can set the desired input level/gain for the selected input here. This can be used to balance level jumps from source to source.

Hide from library

Hide inputs/sources that are not required in the library.

Phase Invert

Invert the phase of the playback signal to achieve phase-correct reproduction depending on the connected component.

Surround Passthrough

To integrate the connected loudspeakers into your surround system, the surround passthrough function allows the signal at the XLR 1 and XLR 2 inputs to be routed directly to the output.

Attention!

Volume control is now handled by the connected source. Improper use can lead to the destruction of connected devices and damage to your hearing. Only connect devices with their own volume control to this input.

DAC Preset

Local preset

In addition to the global setting, individual filters can be defined for each digital input. To do so, select the Local option and then the appropriate preset to save a specific filter characteristic for that source. Further information on the DAC presets can be found in the Global DAC Preset menu item.

5.4. OUTPUT SETTINGS – OUTPUT MANAGER

Speaker

Activate or deactivate the loudspeaker outputs. Use Set Balance to adjust the volume balance between the left and right channels.

Preamplifier

Activate or deactivate the analog output. Use Set Balance to adjust the volume balance between the left and right channels. If the output is activated while a **fixed output level** is set, a warning message appears on the display. This interaction is designed to protect downstream power amplifiers and loudspeakers from overload due to maximum level output.

Headphones

Hot Plug – automatic detection

When you connect the headphone jack, all the other activated outputs on the device are switched off.

When you unplug the headphone jack, the device switches back to the previous state. Use Set Balance to adjust the volume balance between the left and right channels.

Subwoofer

Activate or deactivate the subwoofer output. Use Set Balance to adjust the volume balance between the left and right channels. This setting applies globally to all analog outputs – Preamplifier, Subwoofer and Headphones. The Sub-Out outputs the signal as a mono sum; Set Balance determines the ratio in which the left and right channels are combined into this sum.

Attention!

If you are operating the preamplifier output with a fixed output level (Fixed Output ON), power amplifiers or active loudspeakers must not be connected to this output. The output signal is output at the maximum level in this setting. This can lead to the destruction of the connected power amplifiers and loudspeakers and damage to your hearing.

5.5. BLUETOOTH SETTINGS – BLUETOOTH MANAGER

Connect an audio input

To access the relevant functions, select “Connect as Audio Input.”

Then, select the “Enter Pairing Mode” option. Then, select your Burmester device as the audio output source. Establish this connection within one minute. Once pairing is complete, you can use your Burmester device directly for playback.

Alternatively, activate the pairing function on your playback device first. This is often done by calling up the Bluetooth settings. Then, on the Burmester device, select the “Start scan” option to display playback devices in “Pairing mode.” The signal strength of each scan result is shown alongside its name. Depending on the type, confirmation on the playback device may be required after selection. The display briefly shows the name of the connected source during active playback or when the input is activated.

Playback devices are automatically recognized if they briefly go out of range. Once paired, you can reestablish the connection later directly from the playback device without needing to pair again. The system only allows one active Bluetooth connection at a time. When a new connection is attempted, the longest-connected device is automatically disconnected to make room for the new source.

If the playback device supports this feature, the connection will be reestablished even after you turn your Burmester device off and on again. There is no need to pair again.

Pair remote controller

Select “Pair remote controller” and activate the connection on your remote control according to the instructions displayed. The remote control must be ready for connection within one minute. Then, you can control your Burmester device with the remote control.

Once connected, the remote control will be recognized automatically if it briefly goes out of range. The connection is also restored when you turn your Burmester device off and on again. No further pairing is necessary.

During an existing Bluetooth connection, the infrared function of the remote control is deactivated. In contrast to IR control, Bluetooth allows for the operation of only one device at a time. Apart from the remote control included in the scope of delivery, this Bluetooth connection is only supported by the Burmester 250 Remote Control. Alternatively, models 067 and 005 are also compatible for infrared control.

Show paired devices

Display a list of all external devices connected via Bluetooth. When you select a device from the list, you can use the following options:

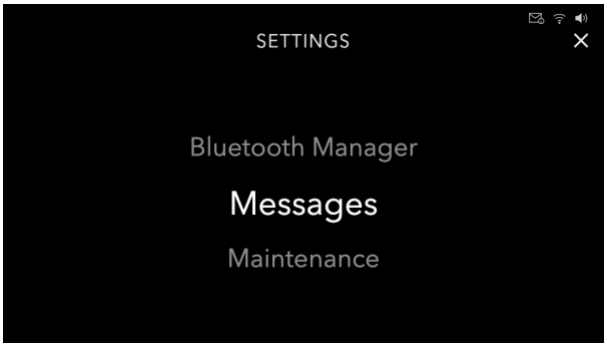
Selecting “Unpair” will delete the recognition. The playback device will no longer connect without being paired again.

Selecting “Disconnect” will end the current connection until the next use, but will not require re-pairing.

Status

View your device’s name, address and status for Bluetooth connections.

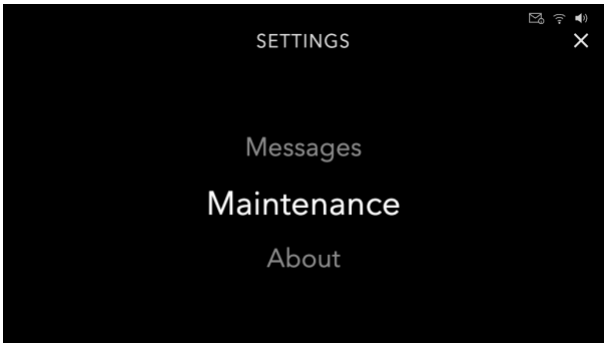
5.6. MESSAGES



Shows messages about the system status of the device.

5.7. MAINTENANCE

SOFTWARE UPDATE



Search for Update

Searches for any available software updates. If an update is found, start the installation by pressing Install now. During an update, the display shows the number of microcontrollers already updated. To avoid noise artefacts, volume initialisation is suppressed during the update process.

Automatic Update: Off

Switches off the automatic update function.

FACTORY RESET

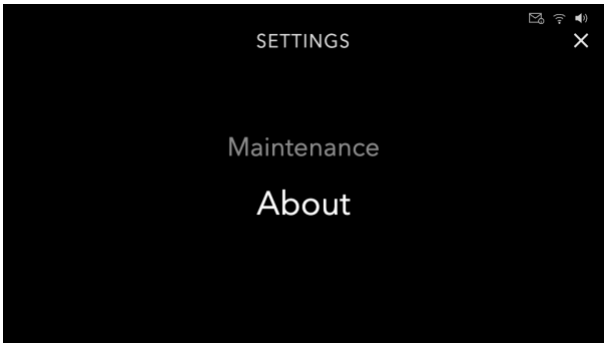
Choose execute factory reset to reset the device to the factory settings.

DIAGNOSTIC LOGS

In the event of an error or functional impairment, system logs can be generated. These can either be saved to a USB storage device connected to the USB1 or USB2 mass storage ports, or uploaded directly to the service team.

To open a service case, an explanatory email is required stating the log ID displayed after the upload. If you missed the ID on the upload screen, you can view it retroactively in the Messages menu item.

5.8. INFORMATION – ABOUT



Provides information such as the device type, software version and manufacturer serial number.

Mobile Application Password

To ensure secure communication between your device and the Burmester Conduct app, the connection is protected by authentication and encryption as standard. The QR code as well as the password are displayed under the Mobile Application Password entry. Proceed as follows to connect:

Make sure that your mobile device and your Burmester device are logged in to the same network. Open the Burmester Conduct app and use the scan function under the Add Device menu item to capture the code. As an alternative, you can enter the password displayed on the device into the app manually. The app can then be used to control your device.

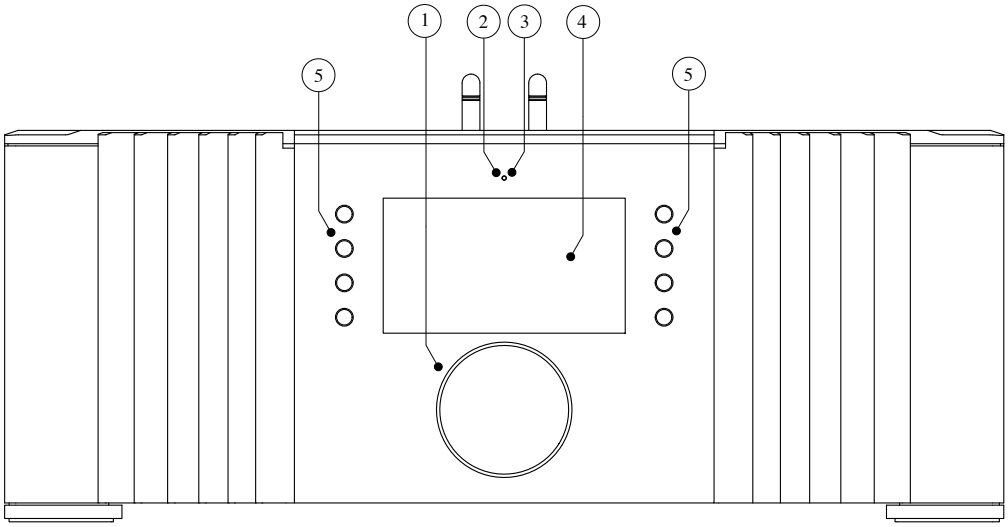
6. Operating and using the 232

6.1. OPERATING THE 232

OPERATION ON THE DEVICE

All settings can be configured by turning (select) and pressing (enter) the haptic adaptive control knob (1).

There are also eight touch-buttons (5) for quick access.
The functions that can be selected are displayed next to the respective touch-button on the display.



(1) Rotary encoder

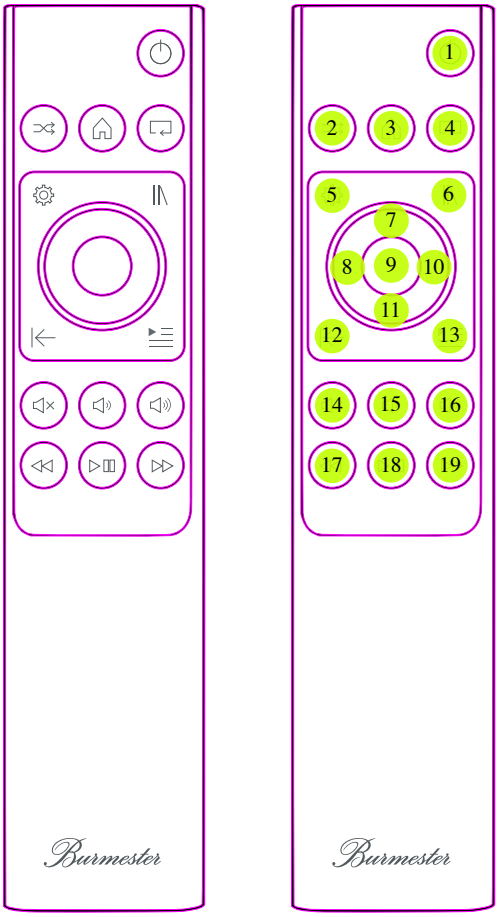
(5) Touch buttons

REMOTE CONTROL

The compact Burmester remote control provides convenient access to practically all the functions of the 232.

Remote control button assignment

1	On/Off
2	Random playback
3	Home
4	Repeat (track/list)
5	Settings



6	Library
7	Navigate up
8	Navigate left
9	OK – enter
10	Library navigation right
11	Navigate down
12	Back
13	Playlist (queue)
14	Mute
15	Volume down
16	Volume up
17	Jump back (short), rewind (long)
18	Play/Pause
19	Jump forward (short), fast forward (long)

USING THE BURMESTER CONDUCT APP

Download the Burmester Conduct app.

Download on the App Store

GET IT ON Google Play

SWITCHING THE 232 ON AND OFF

To switch on the 232, set the mains switch (**31**) on the rear of the device to “ON”.

The 232 is now in standby mode.

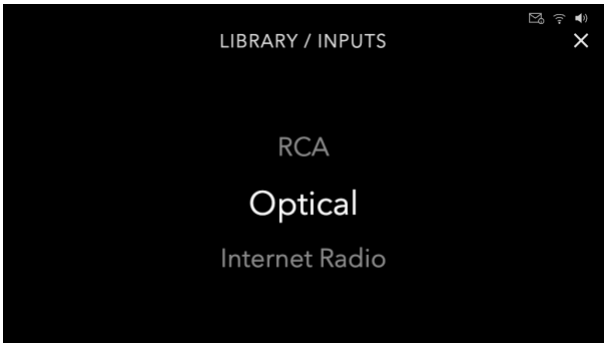
The 232 can be activated at any time on the device or using the remote control. To enable the device to be switched on with the Conduct app too, Smart Standby must be activated. You can find more information about this in **Energy Management** for the 232.

To switch the 232 on and off at the device, press the haptic adaptive control knob.

To switch the 232 on and off with the remote control, press button (**1**).

SELECTING THE AUDIO SOURCE – LIBRARY

On the display of the 232, you can find the audio sources in the library. If you have not assigned a name, the predefined input names appear there (XLR 1, XLR 2, etc.). Digital sources and “Phono” can be selected only if their corresponding modules are installed.



Selecting the audio source on the device

Select the desired audio source by turning and pressing the rotary encoder or using the touch buttons.

Selecting the audio source with the remote control

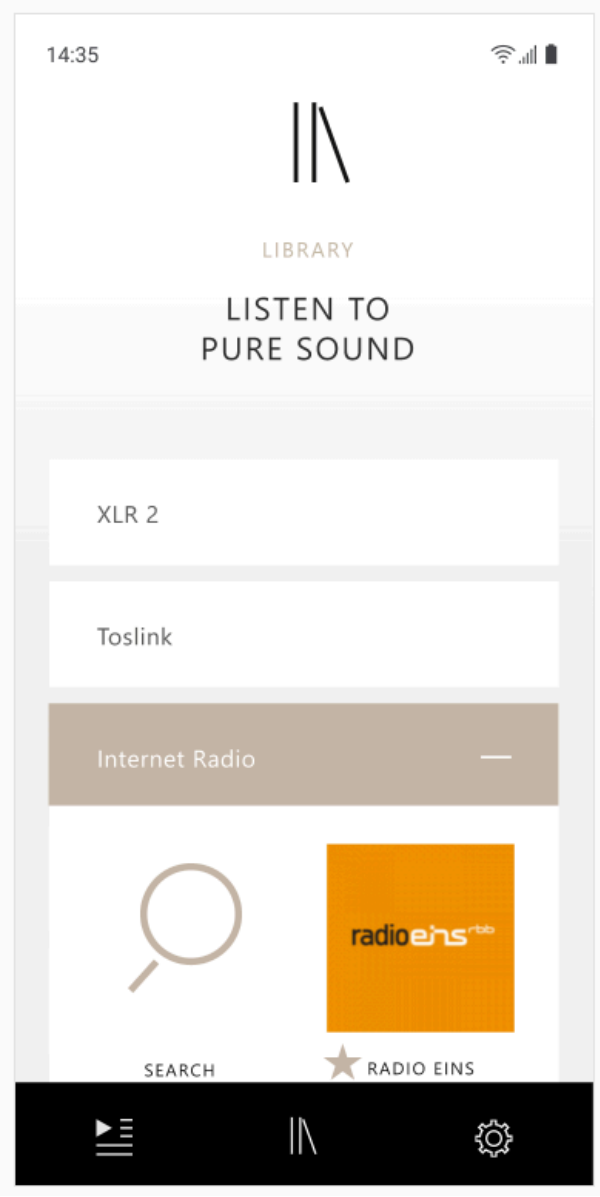
Switch between the audio sources using buttons (**8**) and (**10**) on the remote control.

Streaming services and AirPlay

Note: the 232 automatically switches over to the relevant streaming services or Airplay as you begin to play them in the app. They are therefore not located in the library selection list.

Selecting the audio source in the Conduct app

You can find all the sources that can be played in the selection list (library). Select your desired source.



MUTE

To mute the outputs of the 232 temporarily, press the haptic adaptive control knob on the device briefly, select <Pause/Stop> in the Conduct app or press the Mute button (14) on the remote control.

Note: the digital outputs on the digital module are not muted.

6.2. MEDIA CONTROL

REMOTE

The remote connection allows you to switch your Burmester devices on or off remotely. If you connect the REMOTE OUT (25) jack of the 232 to the corresponding REMOTE IN jack on a Burmester device, you will be able to switch it on and off remotely when switching the 232 on and off.

If you connect the REMOTE IN (24) jack of the 232 to the corresponding REMOTE OUT jack on a Burmester device, you will be able to switch the 232 on and off remotely when switching the device in question on and off.

BURLINK

The BurLink interface can be operated via the 9-pin D-SUB jack (RS-232). RS-232 configuration: 115200 Baud, 8 bit, parity: none, 1 stop bit, no hardware handshake. In newer Burmester devices, it only has very limited functionality.

In addition to the RS232 interface, the 232 alternatively offers an HTTP interface with which almost all device functions can be controlled and information read out. This can be accessed via LAN or WLAN as long as the 232 is in the same network. The documentation can be called up and the commands tested via this address: http://device_ip:3000/api/v1/docs – please replace device_ip with the IP of your 232. Activate the interface via the Network Services sub-menu.

7. Installation instructions 232 modules(phono and DAC)

The installation of the modules requires care, experience in handling technical equipment and basic electrical knowledge. Please have the installation carried out by your specialist dealer.

Caution!

Incorrect handling and installation can damage the modules and the 232! Read these instructions completely before installation.

Unpacking the module

Carefully remove the module from the packaging.

Caution!

Risk of injury to children

This appliance presents various risks of injury if used incorrectly. This appliance is not intended for use by children.

Keep children away from small parts that can be swallowed!

Caution!

The module can be damaged by electrostatic discharge!

Take suitable measures to avoid electrostatic charges during the entire installation process.

Scope of delivery

Module

Allen key 2 mm

screw set

Preparation

Danger!

Dangerous electrical voltages in the device!

switch the 232 off completely.

Disconnect the 232 from the mains by pulling out the mains plug.

Position the 232 so that the rear is easily accessible.

unscrew the module cover of the module in question (2 mm Allen key included).

Installing the module

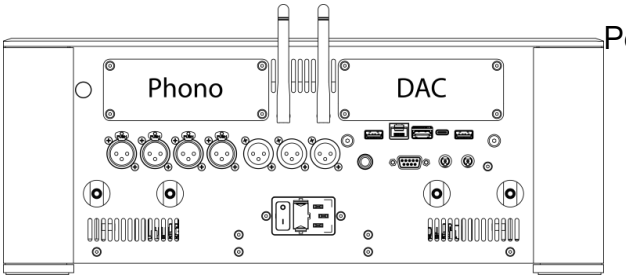
Caution!

The modules may only be installed in the corresponding module slots!

Phonomodule: Left slot (viewed from behind the device)

DAC module: Right slot (viewed from the rear of the device, near the USB LAN and HDMI connections)

Mixing up the modules will destroy them and damage the device!



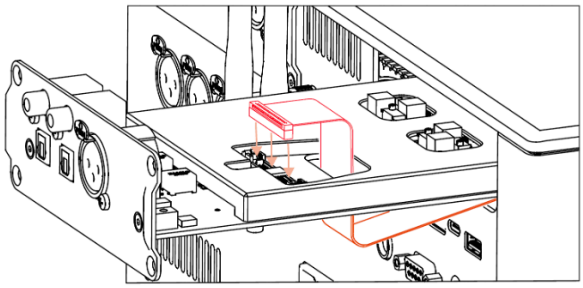
Position of the Modules

For the DAC module only:

a) *Carefully pull the ribbon cable, which is clipped to the inside of the module cover, with the module cover slightly out of the device and remove it from the clip.*

b) *Thread the cable from below through the opening in the DAC module without twisting it.*

c) *Insert the connector of the cable into the socket next to the opening and press it carefully until the two side latches close.*



Cable routing for the DAC module

5. push the module straight into the device without applying force. Use the side protrusions in the housing opening as a guide. When the module is correctly positioned in the rear receptacles, you will feel a slight resistance.

6. Carefully press the module firmly until it rests against the back of the device.

7. Screw the module in place using the new screws provided.

Start-Up

Only reconnect the 232 to the power supply once you have made all other connections.

Switch on the 232. After switching on, the 232 recognizes the installed modules and makes the corresponding functions available.

Please also refer to the operating instructions for the 232.

Keep these instructions, the packaging of the modules and the module covers in a safe place.

Note: the phono module is designed only for use with moving coil (MC) systems. It does not support moving magnet (MM) or moving iron (MI) systems. Connect your MC-equipped turntable to the phono module input before switching to the desired input impedance. The default input impedance for the phono module has been preset to 120 ohms. If you will not be using the device for an extended period of time, we recommend deactivating the input in the Settings.

Removing modules

Observe all safety instructions in this manual when removing modules. Follow the installation steps in reverse order.

8. Maintaining and caring for the 232

8.1. ERROR INDICATION AND TROUBLESHOOTING

The 232 is equipped with extensive protection circuits that protect it and the connected loudspeakers from damage in the event of a fault.

The protective circuits of the 232 react to excessively high DC components on the input and power amplifier output, overheating and short circuits.

If the device switches off, disconnect the device from the mains by setting the mains switch on the rear (31) to zero (0). Check all connections and leave the device to cool down if necessary. Then switch on the device again.

If an error is shown again, switch off the device, fully disconnect it from the mains by setting the mains switch on the rear (31) to zero (0) and pull the mains plug. Please contact your dealer.

If you cannot switch on the device and the power LED does not light up even though the mains voltage is connected, this may be due to a faulty fuse.
In this case, you must always have the device checked by your Burmester dealer.

Only authorised personnel are permitted to change the fuses.

SOFTWARE UPDATE/FIRMWARE UPDATE

You can carry out a software update under **Settings/Maintenance/Software Update**.

8.2. WARRANTY

We at Burmester have crafted a product that meets the highest standards. Every detail is carefully thought out and consciously conceptualised. All used components and materials are handpicked, tested and incorporated by us so that the best achievable product quality and a long service life are ensured.

We hereby guarantee that your Burmester product has successfully passed an extensive checkout routine and has left our factory in perfect shape.

We provide a three-year warranty on your Burmester device. In order for the warranty to be valid, the device must have been connected and operated properly without overloading, the mechanical integrity of the device must not have been compromised, and the device must have been registered. The warranty expires if the device has been tampered with in any way or if parts of the housing, connections or terminals have been dismantled.

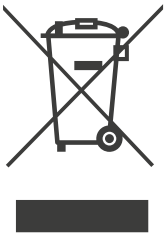
Please register your product with the serial number in the warranty certificate at **brand.burmester.de** and activate your warranty extension.

8.3. CARE

Liquids and chemical agents can cause damage to the surface of the housing.

Ensure that no liquids get into the device. Do not use chemical agents when cleaning.

8.4. DISPOSAL



German law stipulates that this device and its accessories must not be disposed of with household waste (grey bin, yellow bin, compost bin, paper or glass). Instead, they must be handed in at municipal collection points or to voluntary recycling programmes.

9. Technical data for the 232

Device type	Integrated amplifier
Device dimensions	
Width	450 mm
Height (with Wi-Fi antennas)	177 mm (203 mm)
Depth* (housing only)	480 mm (450 mm)
Weight (incl. modules)	29 kg

*The dimensions do not include the lengths of the plugs used for connection.

Voltage ranges	
Model 232-240	220 – 240 V~, 50/60 Hz
Model 232-120	110 – 120 V~, 50/60 Hz
Model 232-100	100 V~, 50/60 Hz
Fuses	

Model 232-240	F1 T 3.15A E or H
Model 232-120	F1 T 6.3A E or H
Model 232-100	F1 T 6.3A E or H
Power consumption STBY/ON (idle)/MAX**	
Model 232-240	< 0.5 W/40 W/650 W
Power output **Power output in stereo (IEC 62368-1) per channel:**	
4 Ohm	155 W
8 Ohm	95 W
Pulse power in stereo (CEA) per channel:	
4 Ohm	200 W
8 Ohm	110 W

** measured with model 232-240 at 230 V~, 50 Hz.

Headphone output	6.3 mm Stereo Jack
Output voltage (no load, MAX)	10.1 V
Output voltage (620 Ohm, MAX)	9.5 V
Output voltage (32 Ohm, MAX)	4.8 V
Output voltage (16 Ohm, MAX)	3.15 V
Output voltage (620 Ohm, 1 V Input, 1 kHz)	1.8 V (0.0012 % THD+N)
Output voltage (32 Ohm, 1 V Input, 1 kHz)	0.9 V (0.0027 % THD+N)

Output voltage (16 Ohm, 1 V Input, 1 kHz)	0.62 V (0.0037 % THD+N)
Output power (620 Ohm, MAX)	146 mW
Output power (32 Ohm, MAX)	620 mW
Output power (16 Ohm, MAX)	720 mW

Damping factor (100 Hz / 4 Ohm)	> 1,000
Amplification	variable
Power frequency response (-3 dB, 1/8 power rating, 4 Ω)	< 10 Hz – 110kHz
THD+N at 1 kHz (50 W / 4 Ohm)	< 0.0048%
Crosstalk damping (1 kHz, 1 V)	> 100 dB
Channel offset	< 0.1 dB
Signal-to-noise ratio (unweighted, at rated power, 1 kHz, at rated power, at 4 Ohm/20 kHz)	> 112 dB
Analog inputs	2 x Stereo-XLR
Input resistance sym/asym	35/28 kOhm
Maximum input level (1% THD+N, 1 kHz)	5.6 Vrms
MC phono input (phono module)	
Subsonic filter	switchable
Input impedance	33, 47, 91, 120, 390, 47k Ω
Input amplification	variable
Analog outputs	1 x Stereo-XLR 1 x Sub-Out mono

Speaker outputs (paired)	2 x LS terminal clamps
Output resistance sym	< 100 Ohm
Digital interfaces on the device*	
HDMI	HDMI ARC
USB1 USB2 SD1 USB Audio	1 x USB-A 2.0, 500 mA 1 x USB-A 3.0, 900 mA 1 x microSD 1 x USB-C

*The functionality of the digital interfaces is only available when the digital module is installed.

Digital interfaces of the DAC module	
Digital input, coaxial	1 x XLR, AES/EBU 1 x RCA
Digital input, optical	1 x TOSLINK
Digital output, coaxial	1 x RCA
Digital output, optical	1 x TOSLINK
Compressed audio formats	MP3 / WMA / OGG / M4A / M4P / AAC / OPUS
Lossless audio formats (including DSD)	WAV / FLAC / AIF / AIFF / DFF / DSF
Playlist formats	M3U / PLS / WPL
Sources	
Internet radio*	
Apple AirPlay**	Airplay 2
Qobuz Connect*	
ROON***	
Spotify Connect*	

TIDAL Connect*

*Internet connection required for full functionality, subscriptions are required to use some online services
**Apple-AirPlay-compatible device required
***Roon server required, internet connection required for full functionality, subscriptions are required to use some online services

Network	
Wi-Fi frequency	2.4 GHz: 2412 – 2472 MHz 5 GHz: 5180 – 5700 MHz (Europe) 6 GHz +20dBm maximum transmission power per range
Wi-Fi certified	Wi-Fi 6E (802.11ax)
Bluetooth	+10dBm maximum transmission power
Ethernet	1 x RJ-45
Remote input/output	1/1 (10 V DC IN/OUT, barrel connector 5.5/2.5 mm)
BurLink remote control	1 x RS-232

Subject to technical changes without notice.

10. Declaration of conformity

Burmester Home Audio GmbH hereby declares that the Burmester 232 radio system conforms to the applicable provisions of the Radio Equipment Directive (2014/53/EU). The full text of the EU declaration of conformity is available at the following internet address:

LEARN MORE

Burmester Audiosysteme GmbH

Wilhelm-Kabus-Straße 47, 10829 Berlin, Germany