

Smart Radio DAB+

Ref.-no.: DAB ..



Smart Radio DAB+ Bluetooth

Ref.-no.: DAB .. BT ..

Operating instructions

1 Safety instructions



Electrical equipment may only be fitted and connected by electrically skilled persons.

Serious injuries, fire or property damage possible. Read and observe instructions fully.

Danger of electric shock. Before working on the device, disconnect the mains voltage and switch off the circuit breakers.

These instructions are a component part of the product and must remain with the end customer.

2 Correct use

- DAB reception in the frequency range 174 MHz to 240 MHz (VHF band III and channel 13)
- FM reception in the frequency range 87.5 MHz to 108 MHz (VHF band II)
- Installation in flush box according to DIN 49073 (recommendation: deep box)


3 Product characteristics

- Digital radio with display and sensor buttons
- Real glass front panel
- Stereo reception
- Connection terminals for two loudspeakers
- Stereo/mono switch-over
- Simple operation
- Integrated antenna for DAB+ and FM
- High reception quality
- Automatic station scan
- Storage of 8 favourites DAB+ and 8 favourites FM (will be retained after voltage failure)
- Switch-on with last station
- Switch-on with last volume
- Switch-on with last operation mode (DAB+ or FM)
- Display of station information, time and current settings
- Current time via RDS and DAB+
- Brightness level of display can be adjusted
- Night mode
- Alarm function
- Sleep mode
- Switching on/off via extension unit
- Line-out output (AUX) to connect external amplifiers
- Optional external cable antenna ref.-no.: RAD-ANT

Only version with Bluetooth

- Playback and control of music on mobile devices via Bluetooth
- Storage of 8 Bluetooth audio sources
- Bluetooth device name can be changed

4 Structure of the device

1. Power supply
2. Frame
3. Display
4. () next/previous channel/title
 ~ ^ loud/quiet, brighter/darker
5. Button On/Off
6. Confirm/apply button
7. Button  Selection DAB+, FM, Bluetooth, Alarm, Settings, Return without saving
8. Favourites button

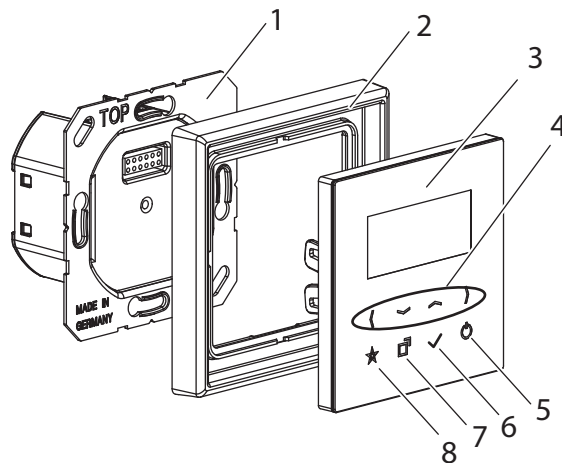






Fig. 1: Structure of the device

5 Operation

Switch on/off

- Press  button
 Radio switches on/off

Menu

- Press  button.
- Select functions with () buttons: DAB RADIO, FM RADIO, BLUETOOTH, ALARM, SETTINGS
- Selection with  button.
- SETTINGS submenu:
 SLEEP, TIME, DISPLAY, BT-NAME
- Selection with  button.

DAB RADIO/FM RADIO



During commissioning, all reachable channels are saved. The next/previous channel is selected using the () buttons.

The choice between DAB RADIO and FM RADIO is made using the menu .

Saving favourites

During commissioning, the 8 strongest channels are saved as favourites.

The favourites can be customised individually.

- Selecting channels
- Press  button longer.
- Select favourite 1-8 using button ()
- Press  button.
 Channel is saved on the selected favourite.

Retrieving favourites

- Press ☆ button briefly.
- Select favourite 1-8 using button ().
The respective channel is displayed and played.
- Confirm channel using ✓ button

Channel search

- Press) button for 3 seconds
Display shows "New Scan"
- Confirm scan using ✓ button

Night mode

In night mode the display can be hidden if the radio is switched off. After pressing any button, the display becomes visible for approx. 10 seconds.

Requirement: For activating the night mode the radio has to be switched off.

- Select the lowest brightness level using ∩ button.
- Press ∩ again to de/activate night mode.

SLEEP

The radio switches off after a predetermined time. The OFF setting deactivates the function.

- Hold down ⏻ button for 3 seconds.
- Set (OFF, 15 min, 30 min) using () buttons
- Confirm ✓ button

Setting time

The time is transferred from favourite 1 via DAB+ or FM. If the time is not transferred via DAB+ or FM, it must be set manually.

- Press □ button.
- Select SETTINGS and then TIME using) button.
- Confirm ✓ button
- Set time using (∩ ∪) buttons.
- Confirm ✓ button

Alarm time/alarm function

The last radio channel is selected as alarm sound. The volume increases gently.

Setting alarm time:

Requirement: The radio is switched off.

- Press □ button for approx. 4 sec
- Setting alarm time using (∩ ∪) buttons
- Press ✓ button
Alarm time is set.
Alarm function is active

Switching alarm function on/off:



Requirement: The radio is switched off.

- Press □ button for approx. 2 sec.
ALARM ON or ALARM OFF is displayed briefly.
Activated alarm time appears in the upper right-hand corner of the display.

Connecting Bluetooth (Only version with Bluetooth)




External audio devices can be connected via Bluetooth.

Requirement: There is no active Bluetooth connection to other devices.





- Invoke menu screen using  button and select BLUETOOTH.
- Confirm  button
The radio is now visible.
The connection can be established via the Bluetooth audio device.
Known devices are connected automatically.

Clearing Bluetooth Connections (Only Version with Bluetooth)

All connections are cleared.

- Invoke menu screen using  button and select BLUETOOTH
- Press  button for 3 seconds
“UNPAIR” display screen
- Confirm  button
All connections are cleared.

Selecting known Bluetooth sources (Only version with Bluetooth)



- Invoke menu screen using  button and select BLUETOOTH
- Press  button briefly
Known sources are displayed.
- Displaying devices using  button
- Select device using  button.

Switching hotel mode on/off

The SETTINGS menu item (Settings) is not displayed in hotel mode.



The maximum volume is limited, channel search and favourite assignment are disabled.

Requirement: The radio is switched off.

- Press  and  buttons simultaneously for approx. 8 seconds.
A progress bar is displayed after approx. 4 seconds.
The hotel mode is switched after approx. 8 sec.
- Release both buttons.
Hotel mode is switched on/off.

Default setting, reset

All settings are reset.

- Press  and  buttons simultaneously for approx. 8 seconds.
A progress bar is displayed after approx. 4 seconds.
The radio is reset to the as-delivered state after approx. 8 sec.
- Release both buttons.
All settings are reset.
Channels for DAB+ and FM are rescanned.

6 Information for electrically skilled persons

Installation and electrical connection



Danger!

Risk of death by electric shock.

Disconnect device from power supply. Cover live parts.

Installation location

The reception quality depends on the installation location. Reception faults in mains (e.g. by the use of LED lighting) are possible.

- Check radio reception of DAB+ and FM by short commissioning before final installation.

Connecting and installing power supply

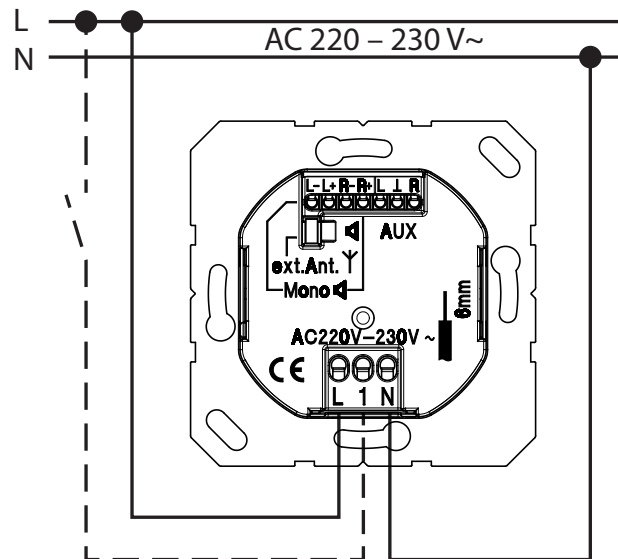


Fig. 2: Connection of insert with optional extension unit

- i** The radio, for example, can be switched on together with the room lighting via the extension unit input.
- i** The radio and extension unit must be operated on the same phase.

Connecting a loudspeaker (stereo mode)

Two loudspeakers must be connected for stereo mode.

- i** All cables with low voltage must be laid in an additional insulating tube within the device box. This guarantees safe isolation from the mains voltage.

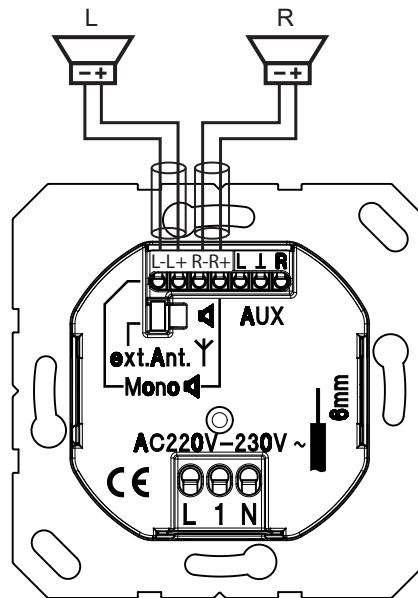


Fig. 3: Connection of 2 loudspeakers

Connecting a loudspeaker (mono mode)

One loudspeaker must be connected for mono mode.

- i** All cables with low voltage must be laid in an additional insulating tube within the device box. This guarantees safe isolation from the mains voltage.

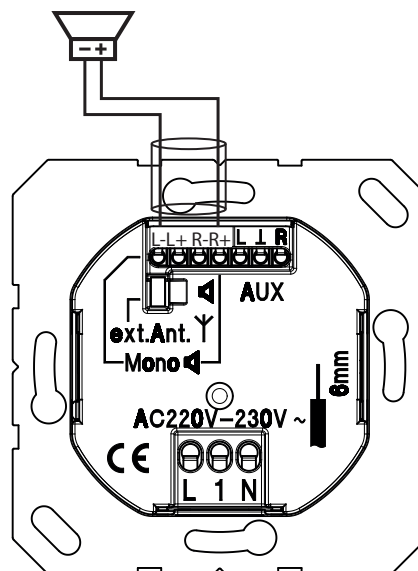


Fig. 4: Connection of 1 loudspeaker

Connecting AUX output

Output to the connection from active boxes and headphones.

- i** All cables with low voltage must be laid in an additional insulating tube within the device box. This guarantees safe isolation from the mains voltage.

Connecting cable aerial

It is only necessary to connect the external cable aerial Art.-No.: RAD-ANT in the case of poor reception.

- i** The connection from other aerials, e.g. roof aerials or community aerials, is not permitted.

- Remove jumper (9)
- Insert the aerial (10) at the lower connection

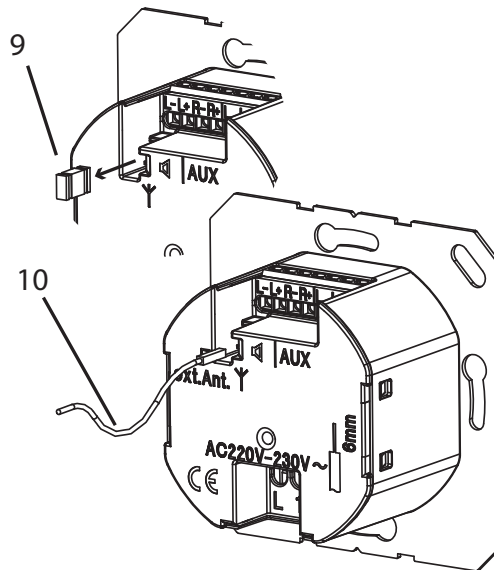


Fig. 5: Aerial connection

7 Commissioning

The radio scans and saves all receivable channels for DAB+ and FM. The 8 strongest channels are saved as favourite.

The time is applied automatically during reception of favourite 1. The time can also be set via the menu.

8 Technical data

Rated voltage	AC 220 ... 230 V~
Mains frequency	50/60 Hz
Connection	Screw terminals
Cable cross-section	1 x 2.5 mm ² or 1 x 1.5 mm ²
Power draw	
Standby	< 1 W
Operation	< 5.5 W
Temperature range	0 ... 50 °C
Humidity	15 ... 90 % (no dew)
DAB frequency range	174 ... 240 MHz
VHF frequency range	87.5 ... 108 MHz
Bluetooth	
Frequency range	2.402 ... 2.48 GHz
Transmission power	Class 2 < 4 dBm
Transmitter range	type 10 m
Protection rating	IP20
Connecting cable loudspeaker	
Twin cable	H03VH-H, 2x0.75
Alternative	JY-(St)- Y 2x2x0.6
Length	max. 5 m
Loudspeaker LSM...	
Rated load capacity	2.5 W
Impedance	4 Ω
Frequency range	120 ... 15000 Hz (-10 dB)

9 Accessories

Cable aerial	Art.-No.: RAD-ANT
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10 Warranty

Warranty is offered according to the statutory provisions via specialist dealers.