

**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
- Depth of flush box (inner dimension): min. 40 mm


**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

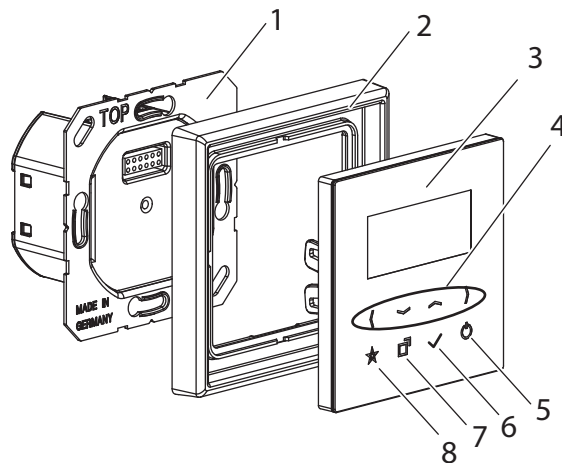




Fig. 1: Structure of the device

## 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

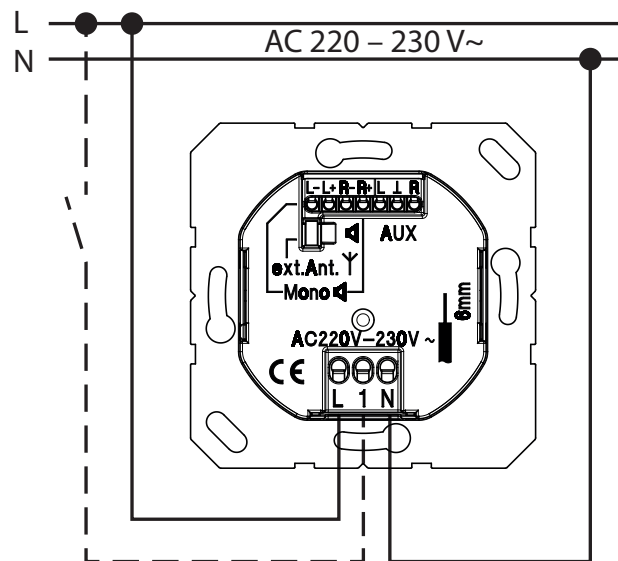


Fig. 2: Connection of insert with optional extension unit

- 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.

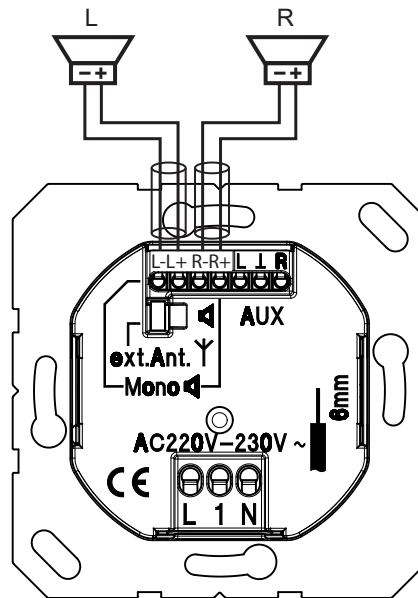


Fig. 3: Connection of 2 loudspeakers

### 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.

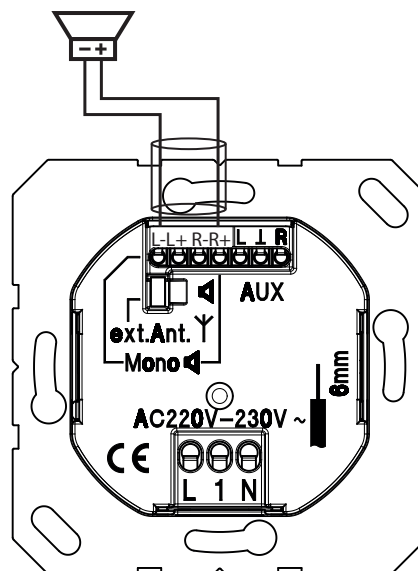


Fig. 4: Connection of 1 loudspeaker

## 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

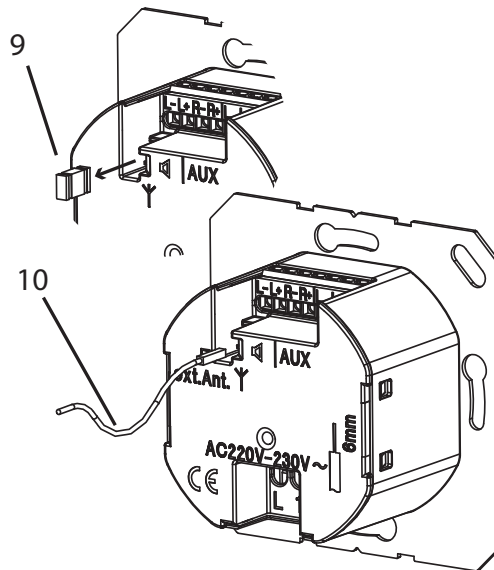


Fig. 5: Aerial connection

## 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 <sup>2</sup> or 1 x 1.5 mm <sup>2</sup>
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 Conformity

Albrecht Jung GmbH & Co. KG hereby declares that the radio system type art. no. DAB .. and DAB .. BT .. meets the directive 2014/53/EU. You can find the full article number on the device. The complete text of the EU Declaration of Conformity is available under the Internet address: [www.jung.de/ce](http://www.jung.de/ce)

## 11 Warranty

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