

Radio module for
dual smoke alarm
device/VdS

Funk-Modul für
Rauchwarnmelder
Dual/VdS

2341 00

GIRA

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Product features

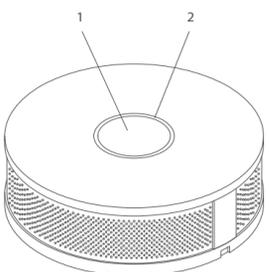
The radio module enables the wireless networking of smoke alarm devices in the Gira radio bus system. The product is intended for use in the Gira smoke alarm device Dual/VdS.

The radio module is plugged in at the module interface of the smoke alarm device Dual/VdS. Because the networking terminals of the smoke alarm device can still be used when the module is plugged in, you can also set up wired networking and connect these via radio. You can also control receivers from the radio bus system to switch on lights or raise blinds in emergencies for example. You can switch a local smoke detection alarm to mute with a radio remote control or radio wall transmitter.

A transmission range of 100 m (free field) can be achieved per radio module. If a smoke alarm device with radio module is programmed as a repeater, the range can be broadened even further.

In addition, it is also possible to integrate the new Gira smoke alarm device Dual/VdS with radio module into already existing installations equipped with Gira smoke detectors modular/VdS with radio modules.

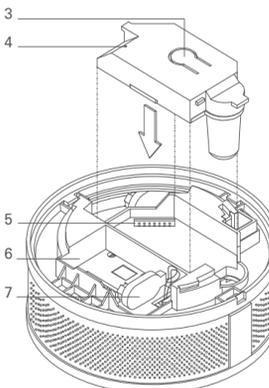
Device description



- 1 Function button
- 2 Ring indicator

The function button is required for the function test.

The ring indicator flashes at various intervals or lights continuously in accordance with whether the smoke alarm device signals an alarm, is soiled or is carrying out a function test (see the smoke alarm device Dual/VdS installation and operating instructions).



- 3 Programming button
- 4 Programming LED
- 5 Module interface
- 6 Battery compartment
- 7 Battery connection

Plugging in the radio module

You must remove the smoke alarm device Dual/VdS from the ceiling to plug in the radio module.

i Note

The smoke detector modular/VdS has a specific radio module and cannot be equipped with the radio module from the smoke alarm device Dual/VdS.

1. Remove the smoke alarm device from the mounting plate or 230 V base: release the locking and rotate the smoke alarm device anticlockwise.
2. Disconnect any existing wiring.
3. Remove the 9 V monoblock battery from the battery compartment and disconnect the battery connection.
4. Insert the connection pins of the radio module into their corresponding module interface holes until the radio module completely engages.
5. Connect the 9 V monoblock battery to the battery connection and insert into the battery compartment. The programming LED of the radio module flashes once for initialisation.
6. Assign the radio module.
7. Carry out a function test.

i Note

The alarm device cannot be latched into the mounting plate or base without an inserted battery.

Assigning the radio module

Radio modules must be assigned for them to communicate to each other as transmitters, receivers or repeaters or to communicate with radio transmitters or radio receivers.

Assignments are carried out in the radio module programming mode. Sensitivity of the receiver is reduced in programming mode.

! Important!

During the assignment process in programming mode, transmitters and receivers must be positioned at a maximum distance of 5 m to each other.

The following assignments are possible:

- setting up a radio-networked group
- assigning the radio module to a radio-networked group of smoke alarm devices Dual/VdS
- assigning the radio module to a radio-networked group of smoke detectors modular/VdS (obsolete systems replaced)
- activating the radio module as a repeater
- deactivating the radio module as a repeater
- assigning the radio module to a radio receiver
- assigning the radio transmitter to a radio module
- deleting all assignments
- implementing test function

Setting up a radio-networked group

Radio modules can only communicate with each other within a group. A radio-networked group must be set up for this purpose.

i Note

All alarm devices in a radio-networked group must be located in a transmitter range of 100 m in the free field.

i Note

A radio-networked group can consist of both smoke alarm devices Dual/VdS and smoke detectors modular/VdS.

1. Insert the radio modules in all alarm devices that should belong to a group.
2. Press the programming button for at least 4 s on all radio modules until the programming LED flashes. Programming mode is activated for approx. 1 min.
3. Press the function button of any alarm device in the group for at least 5 s until the LED lights up continuously on all radio modules. The group has been set up.
4. Exit programming mode by briefly pressing the programming button.

If an alarm device in a group now detects smoke or increased temperature and signals an alarm, all devices in this group signal an alarm. Up to 40 devices can be networked in each group.

Assigning the radio module to a radio-networked group of smoke alarm devices Dual/VdS

Radio-networked groups can be expanded by subsequently assigning radio modules to a group.

1. Make available one of the already assigned smoke alarm devices Dual/VdS from the group to be expanded.
2. Install radio modules in all smoke alarm devices Dual/VdS that you wish to subsequently assign to this group.
3. Press the programming button for at least 4 sec on all of these radio modules and one already assigned smoke alarm device until the programming LED flashes. Programming mode is activated for approx. 1 min.
4. Press the function button of the already assigned alarm devices in the group for at least 5 s until the programming LED lights up continuously on all radio modules. All radio modules are assigned to the group.
5. Exit programming mode by briefly pressing the programming button.

Assigning the radio module to a radio-networked group of smoke detectors modular/VdS (obsolete systems replaced)

It is also possible with the smoke alarm device Dual/VdS equipped with a radio module to assign radio modules to an already existing group of smoke detectors modular/VdS.

i Note

Smoke detectors modular/VdS cannot be subsequently assigned to a group of smoke alarm devices Dual/VdS.

i Note

Keep the installation and operating instructions of the smoke detector modular/VdS ready.

1. Make available one of the already assigned smoke detector modular/VdS from the group to be expanded.
2. Install radio modules in all smoke alarm devices Dual/VdS that you wish to subsequently assign to this group.
3. Press the programming button for at least 4 s on all of these radio modules until the programming LED flashes. Programming mode is activated for approx. 1 min.
4. Press the test button of the already assigned smoke detector modular/VdS for at least 5 s until the programming LED lights up continuously on all radio modules. All radio modules are assigned to the group.
5. Exit programming mode by briefly pressing the programming button.

Activating the radio module as a repeater

The radio module is supplied with deactivated repeater function. It is programmed as a repeater to reach smoke alarm devices via radio that can no longer receive signals over the transmitter range of one or several alarm devices.

i Note

Only one radio module may be activated as a repeater per group. All networked smoke alarm devices must be reachable via the radio range.

The repeater also receives weaker radio telegrams from the radio transmitters and forwards these with maximum output after testing.

! Important!

The radio module of the smoke detector modular/VdS cannot be activated as a repeater. The repeater function can only be activated when no smoke detector modular/VdS is assigned to the group.

1. Select a smoke alarm device Dual/VdS from the group installed at a central location.
2. Press and hold the programming button on the radio module of the device. After approx. 4 s the programming LED flashes. After approx. 10 s the flashing is quicker. The radio module has been activated as a repeater.
3. Exit programming mode by briefly pressing the programming button.

Deactivating the radio module as a repeater

Radio modules activated as repeaters can also be deactivated again.

1. Select the smoke alarm device Dual/VdS from the group that you activated as a repeater.
2. Press and hold the programming button on the radio module of the device. After approx. 4 s the programming LED flashes. After approx. 10 s the flashing is slower. The radio module has been deactivated as a repeater.
3. Exit programming mode by briefly pressing the programming button.

Assigning the radio module to a radio receiver

Radio receivers can be controlled using the alarm function of the smoke alarm device. Lights can be switched on or blinds raised in alarm situations for example. The alarm telegram of the radio module initiates the following defined responses with radio receivers:

Radio receiver	Response
Switching actuators	Switching on
Dimming actuators	Switching on to memory value
Blind actuators	Raise

i Note

Keep the operating instructions of the radio receiver ready.

1. Activate the programming mode on the radio receiver. The LED flashes.
2. Press the function button on the smoke alarm device for at least 5 s until the LED on the radio receiver continuously lights up. This radio receiver can now be controlled via the radio module.
3. Exit programming mode by briefly pressing the programming button.

Assigning the radio transmitter to a radio module

The radio module can be controlled with a radio remote control or radio wall transmitter to switch the smoke alarm device to mute. With an alarm, acoustic signalling and forwarding the alarm signal to external smoke alarm devices can be suppressed locally for approx. 15 min. on this smoke alarm device. Optical signalling is not suppressed.

i Note

Keep the operating instructions of the radio transmitter ready.

! Important!

VdS approval and CE conformity in accordance with EN 14604 become invalid when a radio remote control or radio wall transmitter is used for mute switching of a local smoke detection alarm.

1. Press the programming button for at least 4 s on the radio module until the programming LED flashes. Programming mode is activated for approx. 1 min.
2. Press the desired group and channel button on the radio transmitter until the programming LED of their radio module continually lights up. The radio module can now be controlled via the radio transmitter.
3. Exit programming mode by briefly pressing the programming button.

Up to 14 radio remote controls or radio wall transmitters can control a radio module.

Deleting all assignments

To reset radio modules to factory settings, all assignments to groups as repeaters, to radio transmitters or to radio receivers must be deleted.

1. Press the programming button on the radio module for at least 4 seconds. The programming LED flashes.
2. Release the programming button.
3. Press the programming button again, until the programming LED on the radio module continuously lights up after approx. 10 s. All assignments have been deleted.
4. Exit programming mode by briefly pressing the programming button.

Checking the networking of the smoke alarm device

You can check the networking of the smoke alarm device prior to installation.

1. Press the programming button of the radio module briefly (no longer than 4 sec). The programming LED flashes. Test mode for the radio module has been initiated.

i Note

When the test function is active, the signal transmitter of the smoke alarm device is muted.

2. Press and hold the function button on the alarm device.
3. The radio module tests the reception of alarm messages every 45 s. It may take up to 45 s until the radio module acknowledges reception.
4. When the alarm message is received, the programming LED of the radio module continuously lights up. The radio module is correctly assigned.
5. Exit test mode by briefly pressing the programming button.

Function test

The function test is a manual test of the smoke alarm device.

! Caution!

A loud warning signal is emitted by the networked smoke alarm devices during the function test. Observe a minimum distance of 50 cm to the smoke alarm devices.

With radio-networked smoke alarm devices the radio module tests the reception of alarm messages every 45 s. It may therefore take up to 45 s until the radio module acknowledges reception.

1. Press the function button on the smoke alarm device until an alarm is reported.
 - If a signal tone is emitted after approx. 4 s and the ring indicator signals, the smoke alarm device functions correctly. With radio-networked smoke alarm devices, all networked smoke alarm devices emit an acoustic alarm.
- If you do not hear or see a signal, replace the battery and then carry out the function test again. If a signal is still not emitted, the smoke alarm device is defective and has to be replaced.
2. End the function test by pressing the function button.

Radio transmission

Radio transmission occurs on a non-exclusive transmission path, and interference cannot be excluded for this reason. The radio transmission is thus not suitable for security purposes, e.g. emergency-stop, emergency call etc. The range of the radio system depends on transmitter power, the reception characteristic of the receiver, humidity, installation height and the building itself.

Examples for material penetration:

Dry material	Penetration
Wood, plaster, sheetrock	approx. 90%
Brick, pressboard	approx. 70%
Reinforced concrete	approx. 30%
Metal, metal screens, aluminium cladding	approx. 10%
Rain, snow	approx. 0-40%

Information on radio operation

CE 0682

This device complies with fundamental requirements and further specifications of the 1999/5/EU directive
www.gira.de/konformitaet

The smoke alarm device with radio module may be operated in all EU and EFTA countries.

Technical data

Power supply: via 9 V battery of smoke alarm device
Transmission frequency: 433.42 MHz, ASK
Transmission range: 100 m (in free field)
Temperature range: -5 °C to +50 °C
Protection class: IP 20
VdS approval: Refer to identification label on radio module

Warranty

The warranty is provided in accordance with statutory requirements via the specialist trade.

Please submit or send faulty devices postage paid together with an error description to your responsible salesperson (specialist trade/installation company/specialist electrical trade).

They will forward the devices to the Gira Service Center.