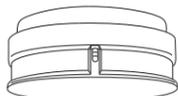


ARGUS smoke detector

Operating instructions



ARGUS smoke detector Connect
Art. no. MTN5480..

Accessories

- Sealing pin for ARGUS smoke detector (Art. no. MTN547000)
 - System relay flush-mounted for ARGUS smoke detector (Art. no. MTN548001)
- You can use sealing pins to see whether the smoke detector is manipulated.

The flush-mounted system relay controls external alarm devices.

For your safety

- CAUTION**
- Do not paint the smoke detector!
 - The loud warning tone can damage your hearing (protect your ears when performing the functional test).
 - Smoke detectors **do not** extinguish a fire!
 - Smoke detectors detect smoke, but no flames or heat!
 - The smoke detector only works with a functioning, correctly connected and inserted battery. Installation without battery is not possible!
 - Do not use rechargeable batteries or power packs!
 - The smoke detector monitors a specific area around where it has been installed and not necessarily other rooms or other floors!
 - There is a risk of explosion if the battery is not replaced in the correctly. Do not damage, crush or short circuit the battery. Do not use pointed or sharp tools when replacing the battery. Only use batteries of the same type when replacing used batteries.
 - Dispose used batteries according to the relevant regulations and without harming the environment.

DANGER

Smoke fumes are poisonous and can quickly lead to a loss of consciousness. In the event of fire, inform everyone in the household (smoke will not wake people up, children tend to hide when in a panic) and leave the building immediately. If there is a lot of smoke, crawl along the floor. Do not expose yourself to unnecessary danger. Inform the fire brigade (WHO, WHERE, WHAT)! - Your local fire brigade is happy to advise you.

i Think about how you can prevent fires and what to do in case of a fire (escape plan, assembly point, location of fire extinguishers, etc.).

Getting to know the smoke detector

The ARGUS smoke detector Connect (referred to below as the **smoke detector**) is a battery-powered smoke detector for early detection of smouldering fires and open fires with smoke building-up indoor.

The red LED flashes every 40 seconds. If the battery is not supplying enough power, a tone will sound every 40 seconds to supplement the flashing red LED. The smoke detector will continue to function for another 30 days.

CAUTION

If you are away for longer than 30 days, you will not hear the warning tone. Therefore, perform a functional test directly after you return.

If the alarm persists for more than five seconds, the radio module will activate all other smoke detectors equipped with a radio module in the range and they will also sound the alarm.

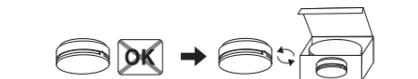
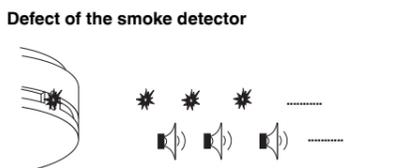
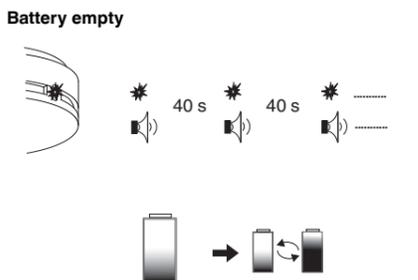
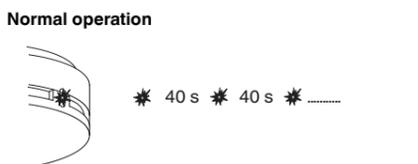
The detector which detected the smoke will transmit the alarm signal for at least 60 seconds and until it no longer detects smoke. A receiving detector will check for an alarm signal every 50 seconds. If no alarm signal comes from the transmitting detector, the receiving detector will also stop the alarm.

i When you combine a radio smoke detector network with a wire smoke alarm network, there may only be one smoke detector with active radio operation in the wire smoke detector network!

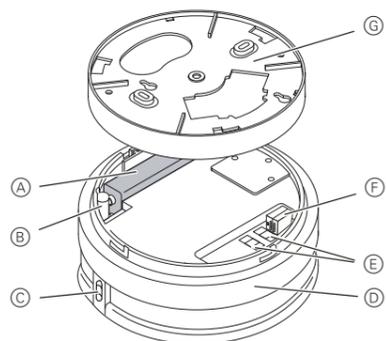
Smoke detector signals

i Make sure that everyone in the building is familiar with the signals of the smoke detector!

The following LED and tone signals show the depend-end status of the smoke detector:



Connections, displays and operating elements



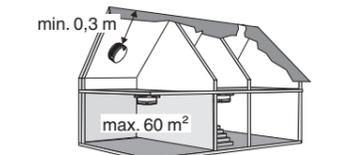
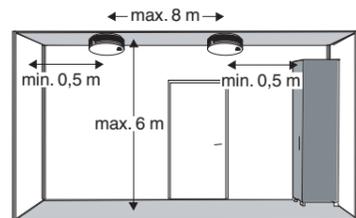
- (A) Battery (9 V monobloc)
- (B) Battery connection
- (C) Test button and LED (red)
- (D) Smoke detector
- (E) Switch for radio networking
- (F) Connection terminal for cable networking
- (G) Base

Selecting the installation site

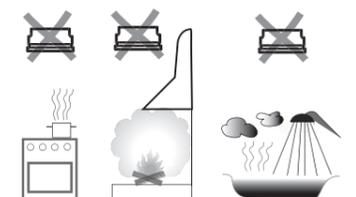
CAUTION

The smoke detector monitors a specific area around where it has been installed and not necessarily other rooms or other floors!

Watch out the following criterias for installing a smoke detector:

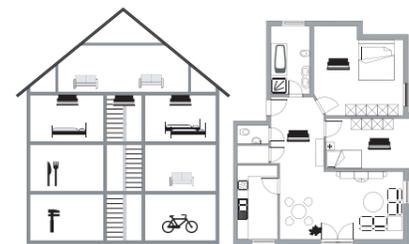


- Do not install the smoke detector
- in areas where there is a draught (next to windows, doors, etc.)
 - in areas where there is steam/exhaust fumes/dust, etc.
 - next to lighting fixtures and ballasts (at least 1 m distance)

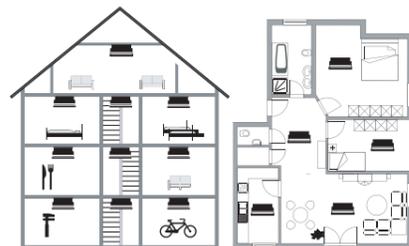


The next examples show you how many smoke detector are necessary for the minimal und optimal protection rate:

Minimal



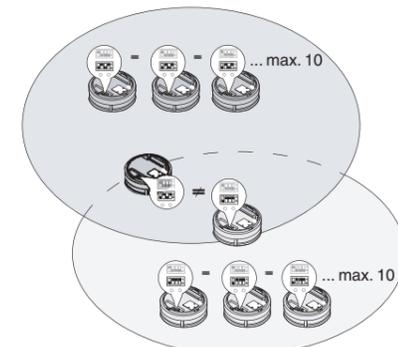
Optimal



A maximum of 25 detectors can be connected via wire. Between two detectors the network cable may not be longer than 25 m.

CAUTION

Wire networking is allowed with ARGUS smoke detectors Connect only. Wired networking with ARGUS smoke detectors 230 V/Connect 230 V is not allowed.



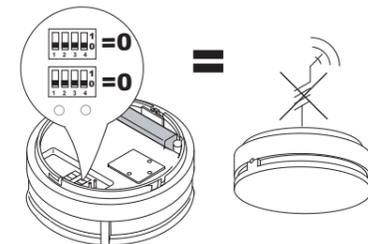
With a radio network, it is possible to assign different ID numbers to ensure that other smoke detectors in the neighbourhood (where the reception ranges overlap) are not triggered, for example.

There are group and device IDs.

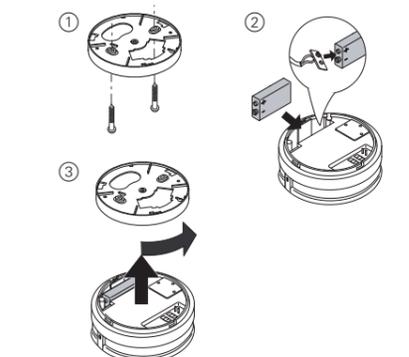
- Group ID: for establishing a smoke detector group
- Device ID: for establishing an individual device address (for later use)

These group IDs are set using the 4 switches of the switch bank located directly next to the network terminal. When one smoke detector is triggered, the warning tones of the other smoke detectors in the transmission radius with the same group ID are triggered (the LED only glows on the smoke detector triggered initially). These smoke detectors are no longer able to transmit the signal by radio, as they can only be receivers or transmitters!

i Radio operation is switched off when the ID has been set to 0.0 (all switches to "0"). This is useful if the smoke detector is only networked by cable. For all other switch settings, radio operation is always switched on!



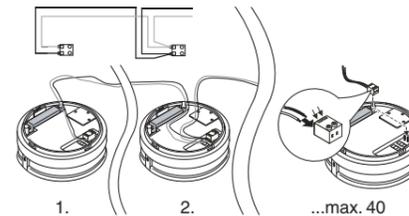
How to mount the smoke detector



- 1 Mount the base with 2 screws.
- 2 Connect a 9 V battery and put it into the smoke detector.
- 3 Press the smoke detector from below to the base and turn it anti-clockwise.

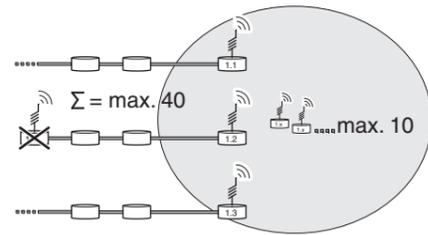
How to network the smoke detector

When using several smoke detectors it can make sense to network the detectors with each other. When one detector is triggered, this triggers the rest of the detectors in the network.



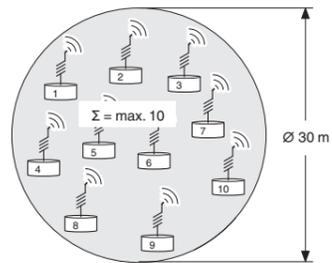
ARGUS Connect smoke detectors can be connected via the network terminal by wire or by integrated radio. Wired networking is carried out via a separate cable (e.g. telephone cable).

Network a maximum of 40 smoke detectors



As a rule, several smoke detectors are combined to form a system. More than 40 smoke detectors should never be networked, regardless of whether the connections are wireless or wired. If more than 40 radio detectors are networked, then the time required until the last detector has reacted will be too long to guarantee a reliable fire alarm.

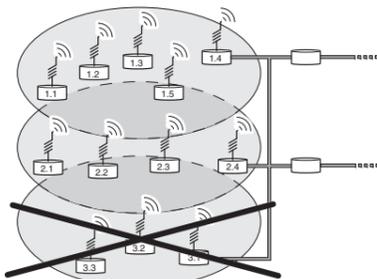
Maximum of 10 radio-networked smoke detectors in one radio cell



The maximum radio module range of 30 m means that devices are surrounded by a radio cell with a diameter of 30 m. Within such a radio cell, 10 Connect smoke detectors may be radio-networked together.

In reality, the size of a radio cell is reduced by many factors. Structural conditions are just as much a factor as with all other radio components. Walls and furniture, etc. also cause attenuation, which must be taken into account. This is why a functional test is obligatory before final installation!

Maximum of 2 radio-networked smoke detectors in one wired line



When Connect smoke detectors are wired to one another, they form a wired line. Within a line like this, a maximum of 2 radio-networked smoke alarms is allowed. Each of these smoke alarms must always be assigned to a different group ID. This type of network is conceivable in a multiple family house, where two flats are connected to each other. Radio operation for all other smoke detectors in this wired line must be switched off (ID = 0.0).

If 2 radio-networked smoke alarms already exist in the wired line, then no additional wired lines may be connected to this system via radio.

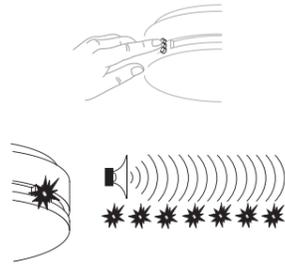
Again, the reason is the running time for the signals, which would be too long in such a system. The time between triggering the first detector and the reaction of the last one would be too long to guarantee a reliable fire alarm.

If there is only one radio-networked smoke alarm in wired lines, then up to 10 wired lines may be networked via radio. The radio-networked smoke alarms of these wired lines must all be in the same radio cell.

How to operate the smoke detector

Conduct a functional test

- After installation
- Every time you change the battery
- After a long absence (more than 30 days)
- At least once a year



- 1 Press the test button for at least 1 second.

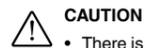
As long as the test button is pressed, a pulsating warning tone sounds and the red LED flashes.

If not, check the battery/battery connection or replace the smoke detector.

The smoke detector transmits a test alarm for 60 seconds. All other networked Connect smoke detectors will detect this within 50 seconds and sound the alarm as well.

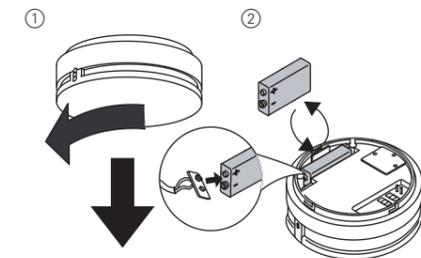
We recommend that you replace your smoke detector after about ten years.

How to change the battery



CAUTION

- There is a risk of explosion if the battery is not replaced in the correctly. Do not damage, crush or short circuit the battery. Do not use pointed or sharp tools when replacing the battery. Only use batteries of the same type when replacing used batteries.
- Dispose used batteries according to the relevant regulations and without harming the environment.



- 1 Turn the smoke detector clockwise and pull it downwards away from the base.
- 2 Change the battery.
- 3 Mount the smoke detector again.

Maintenance and care

Wipe the smoke detector clean (using a moist cloth only), carefully remove dust using a brush.

Carry out a functional test afterwards.

Technical data

Battery:	9 V, monobloc battery, IEC 6LR61 (alkaline)
Battery life:	approx. 2 years
Device life:	approx. 10 years
Supply voltage:	AC 230 V -15%/+10% 50 Hz
Battery failure signal:	every 30 sec., 30 days
Optical display:	LED, red
Sensitivity:	EN 14604:2005
Volume of the signal transmitter:	approx. 85 dB(A) at a distance of 3 m
Network:	up to 40 smoke alarms
Network cable:	Type: J.Y(St)Y 2x2x0.6 (e. g. telephone cable with wire diameter of 0.6 mm)
Cable length:	up to 500 m total
Radio frequency:	868 MHz
Transmission range:	
Indoor/outdoor:	up to 30 m/up to 100 m
Operating temperature range:	0 °C to +60 °C
Type of protection:	IP 42
Dimensions:	112x44 mm (ø x H)
VdS approval:	G207119
According to:	EN 14604

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If you have technical questions, please contact the Customer Care Center in your country.

www.schneider-electric.com

This product must be installed, connected and used in compliance with prevailing standards and/or installation regulations. As standards, specifications and designs develop from time to time, always ask for confirmation of the information given in this publication.