

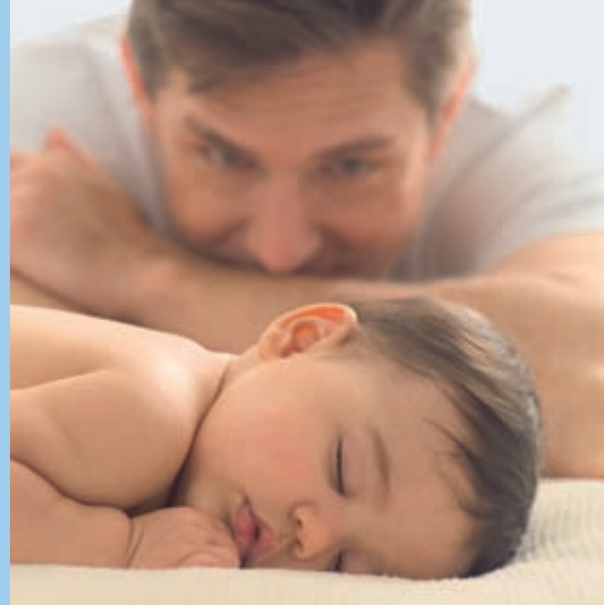
merten

THE NEW GENERATION | ARGUS SMOKE DETECTORS

BODYGUARD – REASSURING AND SAFE



ARGUS SMOKE DETECTORS 100% MERTEN – 100% SAFE



ABSOLUTELY RELIABLE: THE BODYGUARD FROM MERTEN

Nothing should be left to chance when it comes to safety. This is especially true for the risk of fire in flats and homes. Because breathing smoke in and out just three times can be fatal. At night the risk of smoke poisoning is greater, since the human sense of smell does not function when sleeping.

The statistics speak for themselves: 70% of all fire fatalities are a result of fires during the night. In Germany alone, that meant around 600 people last year.

Contrary to general opinion, negligence is not the only cause of approx. 200,000 fires each year. Fires can often be traced to technical defects, short circuits in televisions, video recorders or tumble dryers.

It's good to know that something is alert and ready to warn before it's too late: ARGUS smoke detectors from Merten. They detect smoke according to the scattered light principle, and sound the alarm before its poisonous concentration becomes dangerous for people.

With the latest generation of proven ARGUS smoke detectors, Merten provides the most important factor for safety in combustible situations: uncompromising brand quality that customers can rely on 100% if the worst case becomes reality. The development, technology and production of all components are "Made by Merten". ARGUS smoke detectors comply with all legal safety and security standards, and meet strict Merten quality standards as well.

Because when a smoke detector needs to save lives, quality and safety must be top priority.



Actual size





QUALITY FROM MERTEN ADVANTAGES AT A GLANCE

There is a lot to be said for smoke detectors in general. Learn what distinguishes Merten smoke detectors from other detectors and why it pays to rely on brand quality from Merten. Use these persuasive arguments when talking to your customers!

SAFETY UNCOMPROMISING AND RELIABLE

When it comes to safety and security, Merten sets the standard with its own quality requirements. ARGUS smoke detectors have outstanding features:

- Compliance with strict VdS test criteria and directive 89/106/EEC for construction products
- Produced in accordance with the world's highest quality standard, ISO 9001:2000
- Certified in accordance with EN 14604, for installation conforming to DIN 14676 standards
- Loud, pulsating warning sound (approx. 85 dB (A))
- Automatic self-checking (1x per minute)
- Acoustic and visual malfunction/low battery display

Fire brigades and insurance companies point out that consumers should pay attention to these safety criteria and warn against "dangerous bargains".

SOLUTIONS INDIVIDUAL AND EXACTLY AS REQUIRED

How can you be sure that you will be able to hear the smoke detector in the cellar from two stories away, at night, without a life-threatening delay? Who guarantees that all of the smoke detector batteries in the entire house are always in operating condition?

These questions indicate that ordinary smoke detectors can quickly reach their limits under certain conditions. This is why Merten provides a suitable solution for every individual home situation.

Whether for

- Classic flats
- Existing single-family homes
- New homes in the planning stage

Special ARGUS smoke detectors are operated by battery or 230 V, and are networked from your cellar to the top floor via cable or radio for maximum safety.

DESIGN EXCLUSIVE AND HIGH-QUALITY

The latest generation of ARGUS smoke detectors combines innovative safety technology with high standards of design.

- Appealing, flat design
- Striking protective grating made of aluminium
- High-quality material and surfaces

ARGUS smoke detectors are available in the following colours and versions:

- | | |
|------------------|--------------------------|
| - Basic | polar white |
| - Basic Longlife | polar white |
| - Connect | polar white
aluminium |
| - 230 V | polar white
aluminium |
| - Connect 230 V | polar white
aluminium |

EXAMPLE

RETROFITTING A 3-ROOM FLAT



Living situation for millions: the classic rented or freehold flat. Many people still tend to underestimate how important smoke detectors are. Every second counts when fire breaks out. Your smoke detector could save your life.

THE MERTEN RECOMMENDATION BATTERY-OPERATED SMOKE DETECTORS

Merten ARGUS smoke detectors are ideal for quick, easy retrofitting in flats. Because there is a battery-operated version. Either as the ARGUS smoke detector Basic (battery service life approx. 3 years) or as the ARGUS smoke detector Basic Longlife (battery service life approx. 10 years). The example shows where smoke detectors should be located in a 3-room flat: in the bedroom and the living room, as well as in the hallway.

This ARGUS smoke detector Basic placement provides the minimum protection. In larger flats, alarms may not be heard in rooms that are further away. For these situations, we recommend a networked solution with ARGUS smoke detectors Connect to protect your entire living area.



ARGUS smoke detector Basic, polar white

PRACTICAL AND SOPHISTICATED

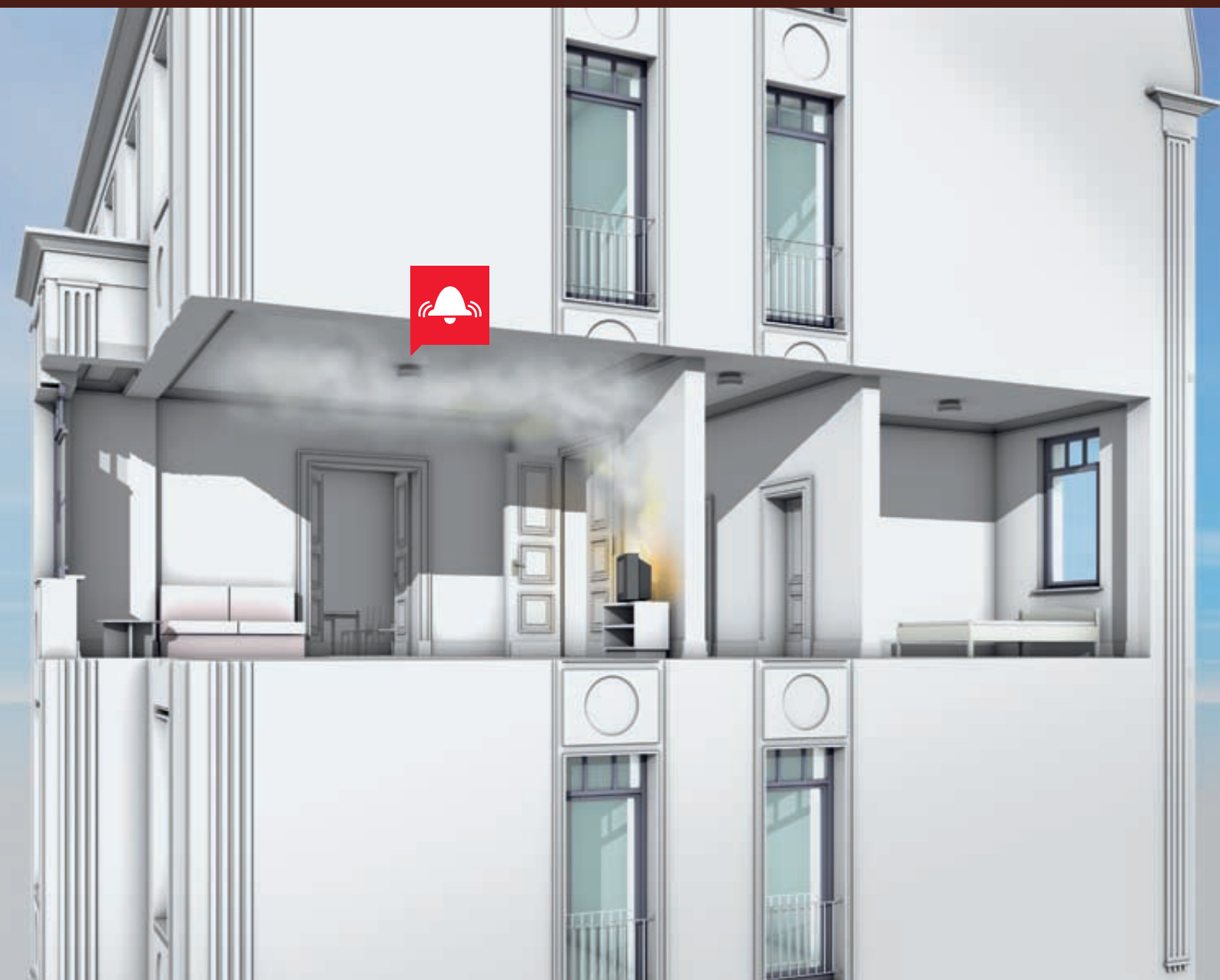
Quick installation:
simply fastened to the ceiling
using one central screw



Simple to check:
test button for functional test

Independent of mains supply:
ARGUS smoke detector Basic
with 3-year battery service life
and ARGUS smoke detector
Basic Longlife with 10-year
battery service life





During the night, a television short circuit starts a fire in the living room. The smoke detector sounds the alarm and, thanks to its piercing warning, wakes the occupants who are sleeping in their bedroom.

MINIMUM PROTECTION				
Solution	Article no.	Price per unit	Number	Total price
ARGUS smoke detector Basic, polar white	547019	€ 16,95	3	€ 50,85
or				
ARGUS smoke detector Basic Longlife, polar white	547119	€ 24,65	3	€ 73,95
OPTIMUM PROTECTION				
ARGUS smoke detector Connect, polar white	548019	€ 65,00	3	€ 195,00

All prices excl. VAT

EXAMPLE

RETROFITTING A SINGLE-FAMILY HOUSE



A defect causes the computer to catch fire at night. The smoke detector not only triggers the alarm in the study, but also activates the smoke detector network throughout the house.

ARGUS SMOKE DETECTOR WITH RADIO NETWORKING

Solution	Article no.	Price per unit	Number	Total price
ARGUS smoke detector Connect, polar white	548019	€ 65.00	7	€ 455.00

All prices excl. VAT



The larger the house and the more rooms it has, the higher the risk that the smoke detector warning will not be heard in rooms that are further away. If there is a fire in the study, how long will it take until the occupants in the living room notice the fire?

THE MERTEN RECOMMENDATION SMOKE DETECTOR WITH RADIO NETWORKING

To be able to sleep soundly at night, it's not enough to install smoke detectors throughout the house. It is important that they are networked to each other. This is the only way to guarantee that when there is a fire in the cellar, for example, all smoke detectors in the house sound the alarm at the same time.

The ARGUS Connect is the optimal system for retrofitting a single-family house. The battery-operated smoke detectors are reliably interlinked using the fail-safe frequency of 868 MHz. The advantage: as soon as a smoke detector discovers smoke, it sends a radio signal to the other smoke detectors and they all sound the alarm. This leaves you plenty of time to get out of the house.



ARGUS smoke detector Connect, polar white



ARGUS smoke detector Connect, aluminium

THE SAFE WAY USING RADIO

Maximum safety through networking: a smoke detector sends the signal and all other connected devices also sound the alarm

Fail-safe 868 MHz frequency



Through radio networking, ideal for retrofitting buildings

EXAMPLE EQUIPPING A NEW HOME



Planning a new home is the ideal time to decide on the optimal smoke detector concept. Not only the features and location of

the smoke detectors, but also how they are operated and networked.

THE MERTEN RECOMMENDATION NETWORKED SMOKE DETECTOR WITH 230 V POWER SUPPLY

For new homes, we recommend the ARGUS smoke detector 230 V for maximum safety from your cellar to the top floor. Your advantage: The smoke detectors are connected to the 230 V cable. This provides the unique opportunity of being able to take the corresponding electricity outlets into account in the planning phase. Only a separate core in the 230 V supply system is required. The integrated battery provides continued functional reliability in the event of a power failure.

Another advantage: If an additional core is available, the ARGUS smoke detectors 230 V can be linked through this core. If there are no free cores, the Merten smoke detector Connect 230 V provides the solution. In this case, networking occurs via radio at 868 MHz, the fail-safe frequency.



ARGUS smoke detector 230 V, polar white



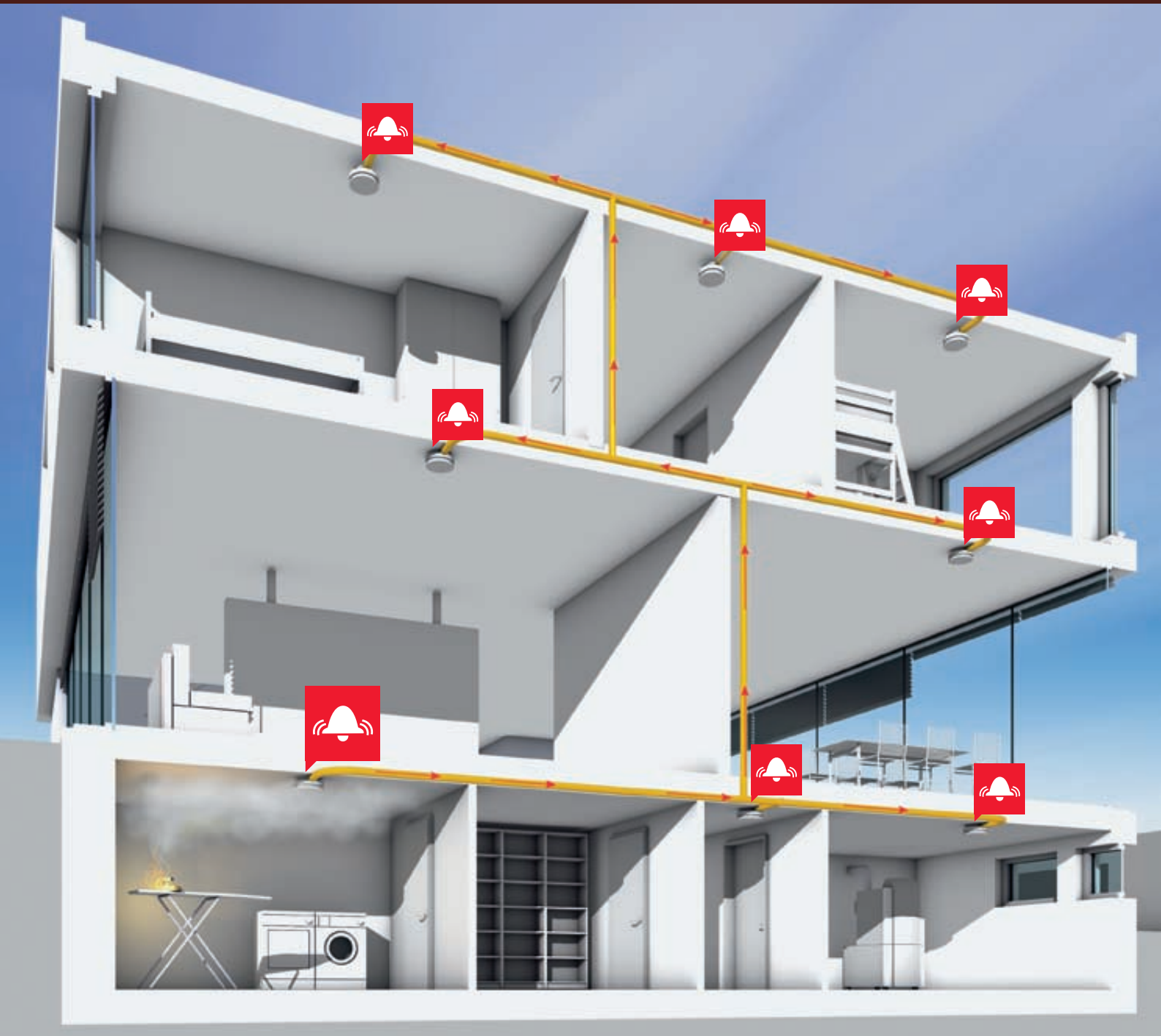
ARGUS smoke detector 230 V, aluminium, including surface-mounted base



ARGUS smoke detector 230 V, aluminium

RELIABLE TO THE CORE





The iron was left on and caused a fire. The smoke detector in the cellar is linked to all the other smoke detectors via cable, so that the alarm is triggered throughout the whole house.

ARGUS SMOKE DETECTOR WITH 230 V SUPPLY				
Solution	Article no.	Price per unit	Number	Total price
ARGUS smoke detector 230 V, polar white	547519	€ 55,00	8	€ 440,00
or				
ARGUS smoke detector Connect 230 V, polar white	548519	€ 95,00	8	€ 760,00

All prices excl. VAT









**A SAFE SOLUTION
FOR EVERY
REQUIREMENT**

merten

A close-up photograph of a white Merten device. The device features a prominent perforated grille. A red, cylindrical sensor or indicator is mounted on the device, positioned above the grille. The brand name 'merten' is printed in a bold, lowercase font on the white plastic housing. The background is a dark, solid color, likely a deep red or maroon.

OVERVIEW OF DESIGN VARIANTS

The new ARGUS smoke detectors provide optimal safety and a variety of technical design characteristics, depending on market and customer requirements. These are shown in the following overview.

ARGUS SMOKE DETECTOR, INDIVIDUAL SOLUTION (NOT NETWORKED)		
<p>ARGUS smoke detector Basic</p> <ul style="list-style-type: none"> • Inexpensive smoke detector as an individual solution • Operated with 9 V battery • Battery service life: approx. 3 years 		
Recommended use: Single-storey flats	Smoke detector Basic polar white, art. no. 547019	
<p>ARGUS smoke detector Basic Longlife</p> <ul style="list-style-type: none"> • Inexpensive smoke detector as an individual solution • Operated with 9 V lithium longlife battery • Battery service life: approx. 10 years 		
Recommended use: Single-storey flats	Smoke detector Basic Longlife polar white, art. no. 547119	
ARGUS SMOKE DETECTOR WITH NETWORKING OPTION		
<p>ARGUS smoke detector Connect</p> <ul style="list-style-type: none"> • Radio-networked smoke detector solution for retrofitting your entire home • Integrated networking options: <ul style="list-style-type: none"> up to 40 wired smoke detectors up to 10 smoke detectors in one radio cell via radio • Battery operated with 9 V battery (battery service life: approx. 2.5 years) 		
Recommended use: Existing single-family house/retrofitting	Smoke detector Connect polar white, art. no. 548019	Smoke detector Connect aluminium, art. no. 548060
<p>ARGUS smoke detector 230 V</p> <ul style="list-style-type: none"> • One of the flattest mains-operated 230 V smoke detectors with large wiring compartment • Functional reliability in case of power failure thanks to integrated battery • Integrated networking options: up to 40 wired smoke detectors • Easy to maintain due to mains supply • Networked using 1 additional core in 230 V network • Including surface-mounted base 		
Recommended use: New, single-family home	Smoke detector 230 V polar white, art. no. 547519	Smoke detector 230 V aluminium, art. no. 547560
<p>ARGUS smoke detector Connect 230 V</p> <ul style="list-style-type: none"> • Radio-networked smoke detector solution for new homes • Integrated networking options: <ul style="list-style-type: none"> up to 40 wired smoke detectors up to 10 smoke detectors in one radio cell via radio • Supplied with current using integrated network terminal to wired connection • Easy to maintain due to mains supply • Including surface-mounted base 		
Recommended use: New, single-family home	Smoke detector Connect 230 V polar white, art. no. 548519	Smoke detector Connect 230 V aluminium, art. no. 548560

ARGUS smoke detector

All ARGUS smoke detectors are with VdS approval!

- Awaiting BOSEC approval
- Awaiting NFS certification
- Awaiting CoMo certification
- Approved in accordance with EN 14676

The smoke detectors operate in accordance to the scattered light principle and detects smoke before the concentration of smoke becomes dangerous for people. This is signalled by a loud warning tone (about 85 db(A)) and an LED.

In networked systems:

- A detector detects smoke and then the alarm is set off by all connected smoke alarms.

Combination Connect smoke detector and Connect 230 V:

- Radio networking is possible

Mounting options:

- Directly on the ceiling with the screws and plugs supplied
- with a central screw
- On flush-mounted and cavity wall boxes

An installed smoke detector system (Art. no. 6634.., 6637.., 663491) can be extended with smoke detectors with radio networking and 2-wire cable networking.



ARGUS smoke detector Connect

Battery-powered smoke detector for early detection of smouldering fires and open fires with smoke emission indoors.

With integrated networking options:

- up to 40 wired smoke detectors
- up to 10 smoke detectors in one radio cell per radio

Wired networking is effected via a separate 2-wire.cable (SELV).

Functions:

- Self-test
- Battery test: A weak battery is displayed via an acoustic signal as well as a flashing LED.
- Push-button for functional test

Functional principle: Scattered light (Tyndall effect)

Sensitivity: in accordance with EN 14604

Battery type: 9 V monobloc battery, IEC 6LR61, alkali

Battery failure signal: approx. every 40 seconds min. for 30 days

Battery service life: About two and a half years

Signal: approx. 85 dB(A) at 3 m distance

Display elements: red LED

Networking: max. 40 smoke detectors

Network cable: Type J-Y(St)Y 2x2x0.6

Total cable length up to 500 m

Radio frequency 868 MHz

Transmission range: up to 100 m free field, up to 30 m indoors

Radio operating elements: Dip switch for addressing/grouping

Operating ambient temperature: 0°C to 60°C

Dimensions: 112.5 x 45.5 mm (Ø x H)

Type of protection: IP 42

With VdS approval

- **Note:** The wired connection of the ARGUS smoke detector 230 V/ Connect 230 V art. no. 5475.., 5485 is not permitted. With pipe cabling systems a gasket must be installed on site between the ceiling and the smoke detector.

Contents: Battery. Screws and plugs.

Availability: Available 1st quarter 2007.

Version	Art. no.	PU	PG	Info
polar white	548019	1/10	8.3	
aluminium	548060	1/10	8.3	



ARGUS smoke detector Connect 230 V

Mains-powered smoke detector with backup battery for early detection of smouldering fires and open fires with smoke build-up indoors.

With integrated networking options:

- up to 40 wired smoke detectors
- up to 10 smoke detectors in one radio cell per radio

Wired networking is carried out via a separate core in the 230 V network.

Functions:

- Self-test
- Battery test: A weak battery is displayed via an acoustic signal as well as a flashing LED.
- Push-button for functional test

Functional principle: Scattered light (Tyndall effect)

Sensitivity: in accordance with EN 14604

Supply voltage: AC 230 V, 50 Hz

Battery type: 9 V monobloc battery, IEC 6LR61, alkali

Battery failure signal: approx. every 40 seconds min. for 30 days

Battery service life:

With a 230 V power supply: approx. every 4-5 years, dependent on the self discharge of the battery installed

During normal battery operation: About two and a half years

Signal: approx. 85 dB(A) at 3 m distance

Display elements: 3 LEDs (red, green, yellow)

Networking: max. 40 smoke detectors

Network cable: separate, free core e.g.

1 x 1.5 mm² in a 230 V network

Connecting terminals: looping possible, every 2 x 2.5 mm²

Total cable length up to 500 m

Radio frequency 868 MHz

Transmission range: up to 100 m free field, up to 30 m indoors

Radio operating elements: Dip switch for addressing/grouping

Operating ambient temperature: 0°C to 60°C

Dimensions: 112.5 x 45.5 mm (Ø x H); with surface mounting 112.5 x 59.5 mm (Ø x H)

Type of protection: IP 42

With VdS approval

- **Note:** The wired connection of the ARGUS smoke detector Connect art. no. 5480.. is not permitted. With pipe cabling systems a gasket must be installed on site between the ceiling and the smoke detector.

Contents: Battery. Screws and plugs. Surface-mounted mounting base with a larger wiring compartment.

Availability: Delivery period on request.

Version	Art. no.	PU	PG	Info
polar white	548519	1/1	8.3	
aluminium	548560	1/1	8.3	



ARGUS smoke detector 230 V

Mains-powered smoke detector with backup battery for early detection of smouldering fires and open fires with smoke build-up indoors.

Up to 40 smoke detectors can be wired to a network. Wired networking is carried out via a separate wire in the 230 V network.

Functions:

- Self-test
- Battery test: A weak battery is displayed via an acoustic signal as well as a flashing LED.
- Push-button for functional test

Functional principle: Scattered light (Tyndall effect)

Sensitivity: in accordance with EN 14604

Supply voltage: AC 230 V, 50 Hz

Battery type: 9 V monobloc battery, IEC 6LR61, alkali

Battery failure signal: approx. every 40 seconds min. for 30 days

Battery service life:

With a 230 V power supply: approx. every 4-5 years, dependent on the self discharge of the battery installed

During normal battery operation: About two and a half years

Signal: approx. 85 dB(A) at 3 m distance

Display elements: 3 LEDs (red, green, yellow)

Networking: max. 40 smoke detectors

Network cable: separate, free core e.g. 1 x 1.5 mm² in a 230 V network

Connecting terminals: looping possible, every 2 x 2.5 mm²

Total cable length up to 500 m

Operating ambient temperature: 0 °C to 60 °C

Dimensions: 112.5 x 45.5 mm (Ø x H); with surface mounting 112.5 x 59.5 mm (Ø x H)

Type of protection: IP 42

With VdS approval

- **Note:** The wired connection of the ARGUS smoke detector Connect art. no. 5480.. is not permitted. With pipe cabling systems a gasket must be installed on site between the ceiling and the smoke detector.

Contents: Battery. Screws and plugs. Surface-mounted mounting base with a larger wiring compartment.

Availability: Delivery period on request.

Version	Art. no.	PU	PG	Info
polar white	547519	1/1	8.3	
aluminium	547560	1/1	8.3	



ARGUS smoke detector Basic

Battery-powered smoke detector for early detection of smouldering fires and open fires with development of smoke indoors.

Functions:

- Self-test
- Battery test: A weak battery is displayed via an acoustic signal as well as a flashing LED.
- Push-button for functional test

Functional principle: Scattered light (Tyndall effect)

Sensitivity: in accordance with EN 14604

Battery type: 9 V monobloc battery, IEC 6LR61, alkali

Battery failure signal: approx. every 40 seconds min. for 30 days

Battery service life: About three years

Signal: approx. 85 dB(A) at 3 m distance

Display elements: red LED

Operating ambient temperature: 0 °C to 60 °C

Dimensions: 112.5 x 45.5 mm (Ø x H)

Type of protection: IP 42

With VdS approval

- **Note:** With pipe cabling systems a gasket must be installed on site between the ceiling and the smoke detector.

Contents: Battery. Screws and plugs.

Version	Art. no.	PU	PG	Info
polar white	547019	1/23	8.3	



ARGUS smoke detector Basic Longlife

Battery-powered smoke detector for early detection of smouldering fires and open fires with smoke emission indoors.

With lithium battery for extended service life.

Functions:

- Self-test
- Battery test: A weak battery is displayed via an acoustic signal as well as a flashing LED.
- Push-button for functional test

Functional principle: Scattered light (Tyndall effect)

Sensitivity: in accordance with EN 14604

Battery type: 9 V monobloc battery, lithium

Battery failure signal: approx. every 40 seconds min. for 30 days

Battery service life: About ten years

Signal: approx. 85 dB(A) at 3 m distance

Display elements: red LED

Operating ambient temperature: 0 °C to 60 °C

Dimensions: 112.5 x 45.5 mm (Ø x H)

Type of protection: IP 42

With VdS approval

- **Note:** With pipe cabling systems a gasket must be installed on site between the ceiling and the smoke detector.

Contents: Battery. Screws and plugs.

Version	Art. no.	PU	PG	Info
polar white	547119	1/23	8.3	

merten

Merten GmbH & Co. KG
P.O. Box 100653
D-51606 Gummersbach, Germany
Tel. +49 2261 702-203
Fax +49 2261 702-328
export@merten.de
www.merten.com

