

Panasonic

PAVA

**Acil Anons ve
Seslendirme Sistemi**



Index

Panasonic Fire & Security Europe	4
PAVA Voice Alarm System	6
Control units	8
Rack mounted control units	11
Microphones	16
Additional devices	19
Loudspeakers	26
Network equipment	42

Panasonic Fire & Security Europe

Panasonic Fire & Security Europe AB develops, manufactures, and sells world-class fire alarm and voice alarm systems in accordance with the global EN 54 standard. With a presence in more than 35 countries across the world, over 40 years of expertise in fire alarm solutions, and installations in more than 15,000 buildings, Panasonic delivers trusted fire safety technology.

Our solutions are designed not only to alert occupants to a fire, but also to guide them safely during an emergency through integrated fire alarm systems, PAVA voice alarm systems, and emergency and exit lighting that support faster, safer, and more controlled evacuations.

Safety innovation, our passion

We are fully devoted to the development and manufacturing of superior integrated fire alarm and voice alarm systems, offering a comprehensive portfolio of products that meet the highest quality standards. Our products are certified by VdS, including EN 54-13 system certificates, ensuring that all our components work perfectly together. Our systems provide reliable fire detection based on true Artificial Intelligence, along with remote monitoring and integration options.

Innovative technology

Panasonic is a global leader in R&D investments, and our company is no exception. With R&D centers in both Japan and Sweden we are able to specialise in the technology suited to provide our customers and partners with the best solutions for their needs.

2026

**PAVA Soft integrated
Voice Alarm System**

2024

**CIE with fully app
based user interface**

2021

**Integrated Emergency
and Exit lights**

Explore some of

Our innovations over the years

Join us to benefit from these innovations and witness the launch of even more applications and products, as we continually strive for improved safety and an easier life for everyone in contact with our equipment.

2021

**Loop
expander**

2019

**Display unit
platform**

2019

**App for
one-person
maintenance**

2002

**Learning
function**

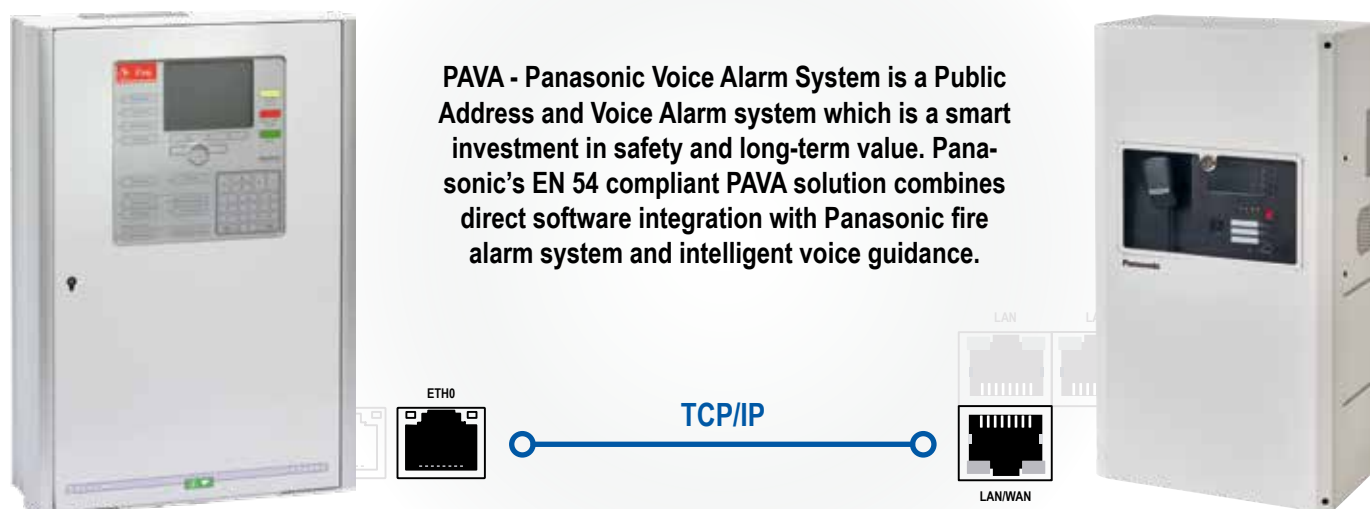
2002

AI-algorithms

1985

Addressable system

PAVA, a fully integrated smart voice evacuation system



Software integrated voice alarm system

Panasonic's PAVA connects directly with the Panasonic EBL fire alarm system through monitored TCP/IP communication. This allows fire alarm events, zones and faults to be shared automatically between both systems, so the right voice alarm actions can be triggered without extra relay modules, additional cabling or complex programming.

Reduced lifecycle cost

With fewer external components, the system reduces failure points, simplifies maintenance, and eases commissioning.

Lower hardware and installation cost

Eliminating relay modules reduces the bill of materials, cabling, and installation time.

Clear voice guidance for faster, safer evacuation

When every second counts, clear and intelligible voice messages help occupants understand what to do immediately, supporting faster evacuation and reducing panic in complex or multi-zone buildings.

More than safety, a complete communication platform

Support for daily public address and operational announcements, making Panasonic PAVA useful beyond emergency evacuation for routine paging, scheduled messages and general building communication.

Designed for today, ready for tomorrow

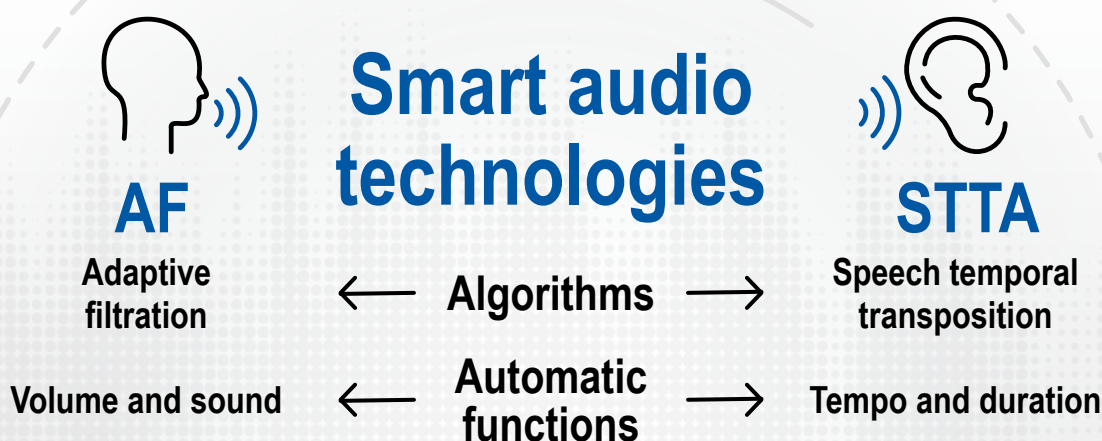
With its distributed architecture, advanced monitoring and network connectivity, Panasonic PAVA is designed for projects that may grow or change over time, from small installations to large, multi-site systems.

Seamless software integration for smarter life safety



The system is designed with a redundant control unit network and amplifiers to help maintain operation and keep emergency voice messages broadcasting if part of the system fails. Our voice alarm system features direct software-level

integration with the EBL fire alarm system. Alarm and fault information is exchanged via supervised digital communication, supporting precise zone-based evacuation strategies and continuous system monitoring.



Adjusts volume and sound clarity based on real-time noise sensor readings, maintaining a level difference of 5, 10 or 15 dB between voice messages and background noise. Frequency characteristics adapt dynamically based on room acoustics and SPL levels within each zone.

Adjusts the tempo and duration of live announcements made using PAVA system paging microphones, by detecting and shortening speech hesitations and prolonged sounds, allowing even unskilled operators to make clear, intelligible announcements in difficult acoustic conditions.

Control units



The control unit

The control unit is the main element of the Panasonic PAVA Voice alarm system, which receives audio signals and sends them to the entire system. It allows flexible configuration of audio signal tracks from any source of signal to any output. Global audio track switch is possible on the basis of the programmable logic system and Ethernet 1G (UDP/IP,TCP/IP) network.

All-in-one independent wall mounted units

Flexible speaker line monitoring:

Impedance measurement

Loop isolators

End-of-line device

Software Integration with Panasonic EBL Fire Alarm System

Redundant Amplifier to ensure voice messages continue if an amplifier fails



Integrated control unit with touchscreen, fireman's microphone, amplifiers and power supply units

Easy integration with SIP and IP Intercom

Up to:

16 speaker lines

1500 W speaker load (rms)

3 simultaneous messages per control unit

EN54

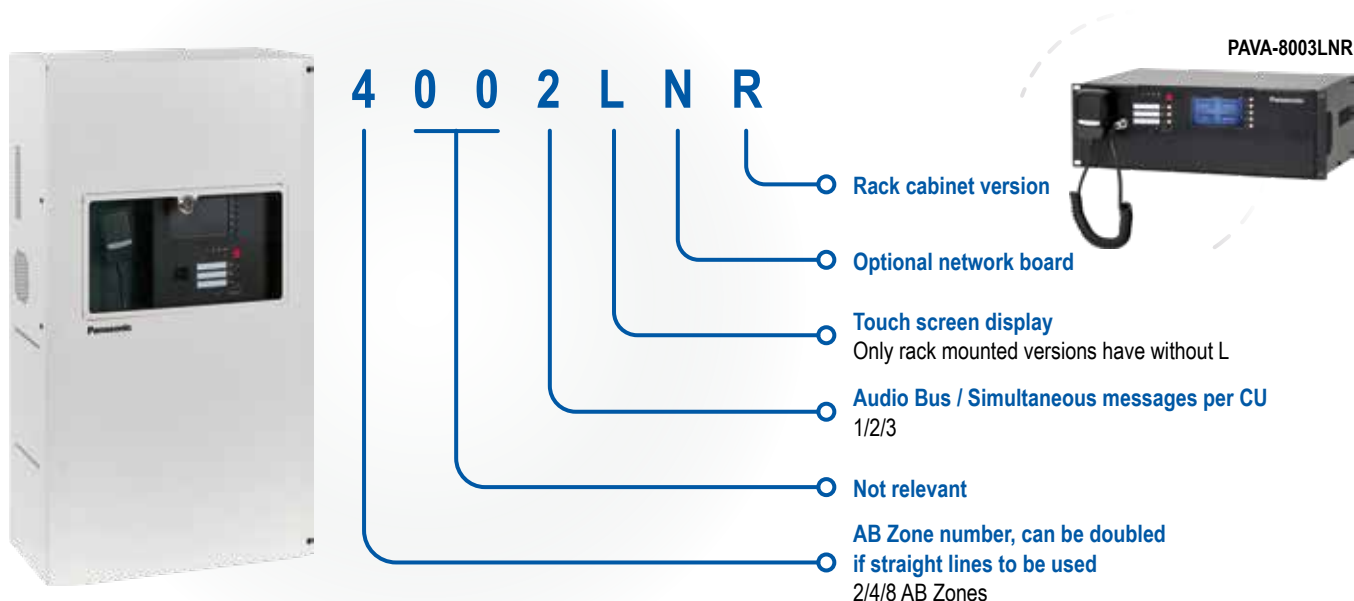
EN 54-16
EN 54-4

CPR

1438-CPR-1146

	2001L/LN	4001L/LN	4002L/LN	8002L/LN	8003LN
No. of speaker lines	4 (2 x AB)	8 (4 x AB)	8 (4 x AB)	16 (8 x AB)	16 (8 x AB)
Total load of the system	320 W rms	640 W rms			1500 W rms
No. of amplifiers / power	2 * 160 W	2 * 320 W			3 * 500 W
Redundant Amplifier	Yes				
No. of simultaneous messages	1	2			3
Battery capacity	4 x 45 Ah			4 x 65 Ah	
Ingress protection	IP30				
Operating condition	-5 to + 40°C / 5% to 95% humidity with no condensation				
Gross weight	30 kg	34 kg	34 kg	33 kg	31 kg
Dimensions (H x W x D)	797 x 442 x 241 mm				

PAVA Control units - Reference coding system



EXAMPLES

PAVA-4002LN: Wall mounted control unit with 4 zones, 2 simultaneous messages, touch screen display and built-in network switch.

PAVA-8003LNR: Rack mounted control unit with 8 zones, 3 simultaneous messages, touch screen display and built-in network switch.



Rack mounted control units



All-in-one independent rack mounted units



- › Software Integration with Panasonic EBL Fire Alarm System
- › Integrated control unit with touchscreen, fireman's microphone, amplifiers and power supply units
- › Up to 16 speaker lines
- › Up to 1500 W speaker load (rms)
- › Up to 3 simultaneous messages per control unit
- › Flexible speaker line monitoring:
 - › Impedance measurement
 - › Loop isolators
 - › End-of-line device
- › Easy integration with SIP and IP Intercom
- › Easy integration with building and management systems
- › Easy and flexible commissioning and service

PAVA-8003LNR configuration options*

32 speaker lines, 3000W configuration

Assembled 15U rack cabinet with PAVA-8003LNR and PAVA-8003R controllers.

16 speaker lines, 1500W configuration

Assembled 15U rack cabinet with PAVA-8003LNR controller.



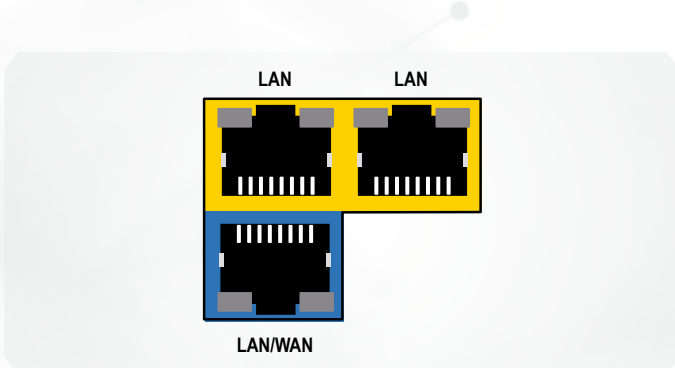
PAVA-8003LNR + PAVA-8003R + 15U

	4002LNR	8002LNR	8003LNR*	8002R	8003R
No. of speaker lines	8 (4 x AB)	16 (8 x AB)			
Total load of the system	320 W rms	640 W rms			1500 W rms
No. of amplifiers / power	2*320 W	3*500 W		2*320 W	3*500 W
Redundant Amplifier	Yes				
No. of simultaneous messages	2	3	2	3	
Battery capacity	4 x 45 Ah	4 x 65 Ah			
Ingress protection	IP30				
Operating condition	-5 to + 40°C / 5% to 95% humidity with no condensation				
Gross weight	19 kg	20 kg	17 kg	19 kg	16 kg
Dimensions (H x W x D)	176 x 440 x 354 mm				

Network cards

Default network board

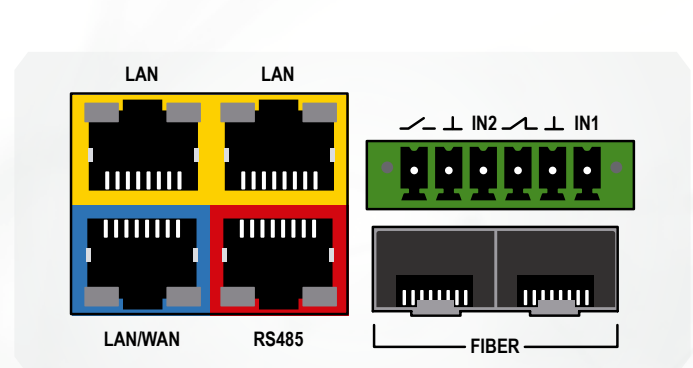
For small sized systems where the control units are installed close to each other and standard LAN connections are enough.



- › 1 x LAN/WAN Port for programming or integration
- › 2 x LAN Port for networking

Optional “N” version network board

For larger or distributed systems where control units need to be connected over longer distances, by fiber, or with redundant network connections.



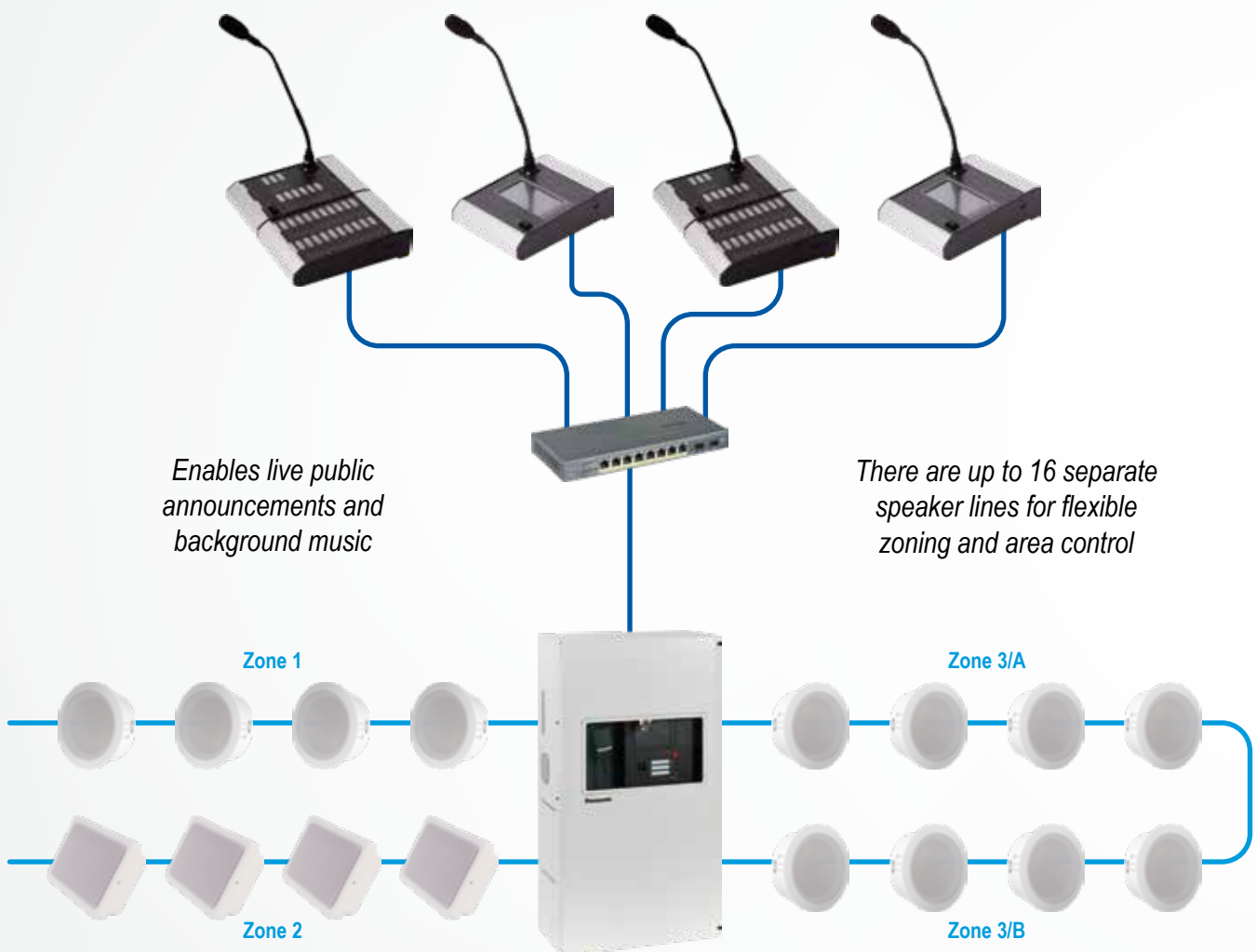
- › 1 x LAN/WAN Port for programming or integration
- › 2 x LAN Port for networking (One with PoE)
- › 1 x RS485 port
- › 2 x SFP port for Fiber Optic Networking
- › 2 x Logical Input with free programming
- › 2 x Logical Output with free programming

PAVA application examples

Stand-alone application

This application is ideal for installations such as supermarkets, supporting daily operations and in-store audio distribution.

Supports a large number of microphones for staff announcements



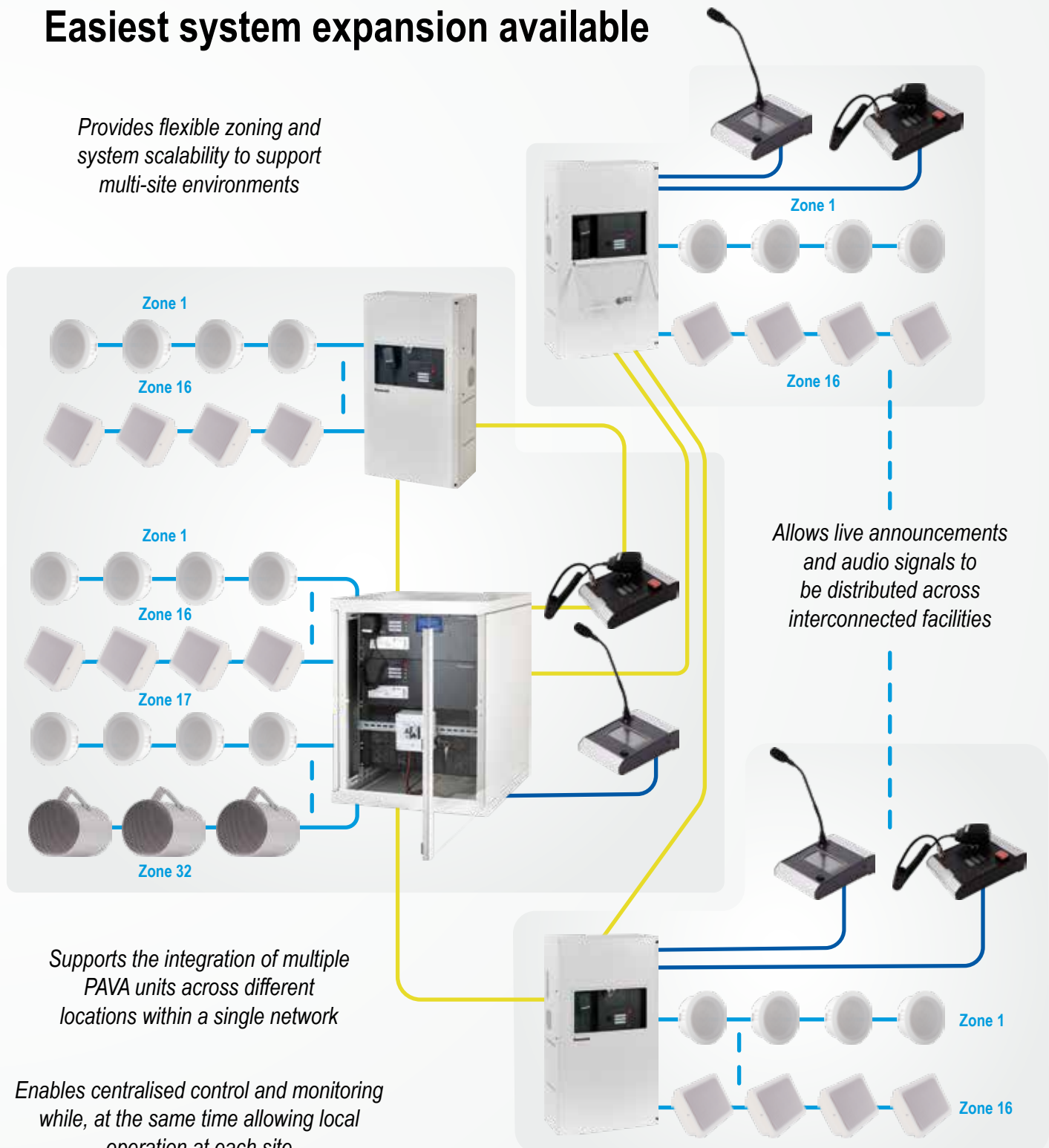
Up to 3 simultaneous voice messages or music streams for each control unit

Multi-site networked configuration

This configuration represents a networked PAVA system connecting multiple sites to a central control location, enabling coordinated communication and system management across distributed facilities.

Easiest system expansion available

Provides flexible zoning and system scalability to support multi-site environments



Microphones



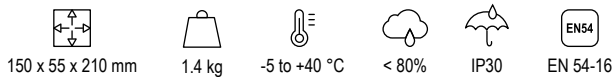
PAVA-DFMS Fireman microphone

When every second counts, the fireman's microphone provides direct communication across the entire voice alarm system, enabling clear live announcements, instant activation of emergency messages, and immediate evacuation control for a fast, coordinated emergency response.

- › Full functionality even at system failure
- › Push-to-talk microphone
- › Three fully programmable keys
- › Supports up to five extension units
- › Intercom function between all fireman and zone microphones
- › Black-box function recording all announcements played during an alarm

Fully operational even if main CPU fails

PAVA-DFMS Fireman's microphone



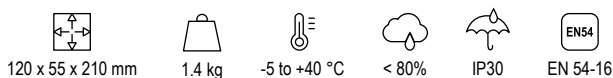
Black-box recording for full alarm traceability

PAVA-DMS Zone microphone

The zone microphone provides clear, flexible paging across the voice alarm system, enabling live and pre-recorded announcements to selected zones.

- › Monitored connection of the unit within the system
- › Nine fully programmable function keys with configurable zones, priorities, and access rights
- › Supports up to five extension units
- › Intercom function between microphones
- › Built-in speaker
- › Stereo jack socket for audio inputs
- › Powered locally (48V) or via PoE

PAVA-DMS Zone microphone



PAVA-DMS-LCD Zone microphone with LCD

The zone microphone with LCD provides intuitive, efficient paging across the voice alarm system, enabling live and pre-recorded announcements to selected zones with fast access to system functions and flexible operational control.

- › 4.5" touchscreen LCD for quick navigation and control
- › Five fully programmable keys
- › Supports up to five extension units
- › Multiple audio inputs for flexible local source connection
- › Intercom function between all fireman and zone microphones
- › Built-in speaker
- › Stereo jack socket for audio inputs
- › Powered locally (48V) or via PoE



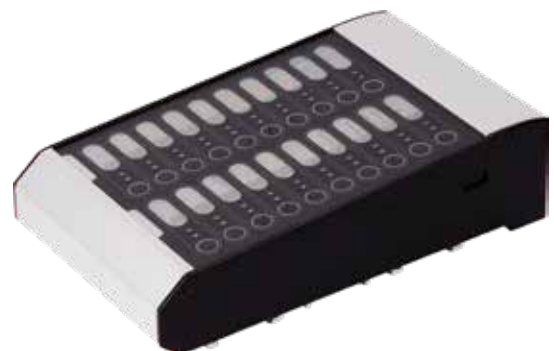
PAVA-DMS-LCD Zone microphone with LCD

					
150 x 55 x 210 mm	1.4 kg	-5 to +40 °C	< 80%	IP30	EN 54-16

PAVA-EKB-20M Microphone keyboard extension

Adds 20 functional buttons to fireman or zone microphones.

- › Freely programmable LED indicators for clear status feedback
- › Powered from fireman microphone/zone microphone (DFMS/DMS)
- › Up to 5 extension units can be connected to each microphone



PAVA-EKB-20M Microphone keyboard extension (20 buttons)

					
120 x 55 x 210 mm	1.4 kg	0 to +60 °C	< 80%	IP30	EN 54-16

Additional devices



PAVA-MC PAVA microphone cabinet

Secure, fire-service-ready installation.

- › Metal cabinet designed for built in mounting of the fireman microphone
- › Locked access using the same key type as the CIE



PAVA-MC PAVA microphone cabinet



410 x 290 x 128 mm



5 Kg



-5 to +40 °C



< 90%

The right monitoring method for every project

Our PAVA solution supports multiple speaker line monitoring methods, providing greater flexibility, improved reliability, and compliance with EN 54-16 requirements. This allows system designers to choose the most efficient and cost-effective solution for each project while ensuring reliable operation, which offers a key advantage over most alarm systems.

Speaker line monitoring options

Cost Efficiency

No extra cabling needed

Flexibility

Four power settings



ABT-EOL

End of Line
supervision

Compliance

EN 54-16 certified

Reliability

Continuous multi-fault detection

Fault Tolerance

Continuous critical monitoring

Maintenance

Simplified fault finding



IS8200-1

Short-circuit
loop isolators

Protection

Robust IP55 rating

Uptime

Dedicated short-circuit isolation

Cost Efficiency

Eliminate additional hardware
and reduce installation costs

Compliance

Designed to meet EN 54
monitoring expectations



IMP-MON

Impedance
monitoring

Maintenance

Proactive line supervision for faster
service and reduced downtime

Availability

Continuous real-time monitoring
for maximum system readiness

ABT-EOL End of line supervision module

This module provides continuous loudspeaker line monitoring without additional supervision cabling, helping to reduce installation costs, simplifying maintenance and fault monitoring.

- › Open circuit, short circuit, and ground leakage detection
- › Four power settings for flexible speaker line configuration
- › Powered directly from the amplifier
- › No additional supervision cabling required
- › Reduced cabling and installation complexity

Reduced installation costs by eliminating the need for extra supervision cabling



ABT-EOL End of line supervision module (10 pcs.)

				
65 x 16 x 37 mm	46 g	-10 to +55 °C	< 95%	EN 54-16

IS8200-1 Loop isolator

It protects loudspeaker circuits in voice alarm systems. Used with the LM8200 loop monitor, it provides continuous short-circuit monitoring, improving system reliability and fault tolerance in critical applications.

- › Continuous short-circuit monitoring
- › Short-circuit isolator for loudspeaker lines
- › Used with the dedicated AB loop monitor (LM8200)



IS8200-1

IS8200-1 Loop isolator

				
88 x 60 x 34 mm	100 g	-10 to +55 °C	< 95%	IP55

LM8200 Short-circuit isolator driver

This board monitors loop speaker lines used with IS8200 isolators, helping the system remain reliable in critical voice alarm applications.

- › Continuous loop monitoring
- › Up to 4 speaker loops
- › Loudspeaker configurations of up to 4 zones
- › Helps limit the impact of short-circuit faults



LM8200

LM8200 Short-circuit isolator driver

				
235 x 184 x 96 mm	3.5 kg	-5 to +45 °C	< 95%	IP20

ABT-REG1 Volume controller

It allows local adjustment of loudspeaker volume during normal operation and ensures emergency voice alarm messages always take priority. It provides great user comfort without compromising safety.

- › Wall mounted volume controller
- › Designed to control 100 V signal
- › Maximum speaker / speaker group load is 40 W rms

ABT-REG Volume controller



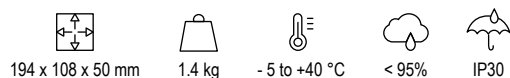
*Emergency messages
always override
local volume*

WMC Wall mounted controller

The wall mounted controller makes day-to-day operation faster, easier, offering greater flexibility and a more user-friendly experience without needing access to the main control unit.

- › Intuitive and easy operation
- › 4.3" LCD touch screen for fast and clear source selection, routing and volume control
- › Bluetooth 5.0 to play audio wirelessly from a mobile phone or other bluetooth devices
- › Possible to connect a professional microphone or audio source

WMC Wall mounted controller



BLE



*Wireless audio control without
accessing the main unit*

BOX W / BOX F Housings for WMC

- › Wall and flush mounted housings for WMC

BOX W-m Wall mounted housing for WMC

BOX F-m Flush mounted housing for WMC



ABT-NSC6 Noise sensor controller

It automatically adjusts volume based on background noise, ensuring announcements stay clear without being too loud or too quiet.

- › Collection of audio data from up to 6 noise sensors and automatic volume control of background music and announcements in assigned speaker zones
- › Up to 6 speaker zones per controller
- › Up to 24 controllers per network for large-scale applications
- › Up to 144 monitored points/zones per system
- › Powered over external power supply or PoE
- › TCP/IP allows digital communication with the PAVA system, making integration, configuration and expansion easier, with less dedicated cabling

Intelligent volume adjustment for optimal clarity



ABT-NSC6 Noise sensor controller

					
198 x 198 mm	1.2 kg	-5°C to +60°	< 95%	IP54 IP66	EN 54-16

ABT-NSM Noise sensors

ABT-NSM noise sensors are used with the ABT-NSC6 noise sensor controller to measure background noise in a zone. This allows the PAVA system to automatically adjust the volume of music and announcements, helping messages remain clear and comfortable as noise levels change.

ABT-NSM (A) Noise sensor indoor

- › Lightweight housing for indoor environments
- › 2 wire analogue connection up to 300 m from ABT-NSC6 noise sensor controller



ABT-NSM (A) Noise sensor indoor

				
Ø200 x 110 mm	1.5 kg	- 10 to +55 °C	< 95%	IP32

ABT-NSM (B) Noise sensor outdoor

- › Enclosure for severe outdoor conditions
- › Operation under extreme temperatures
- › 2 wire analogue connection up to 300 m from ABT-NSC6 noise sensor controller

ABT-NSM (B) Noise sensor outdoor



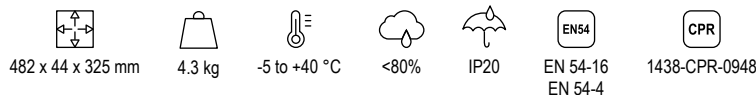
Built for extreme outdoor conditions

SMART-DU1604 Adaptive audio processor

It improves speech intelligibility in large or acoustically complex buildings where clear voice evacuation messages are critical. It processes announcements and data from noise-sensing microphones in real time, automatically optimising the audio so that messages remain clear and intelligible, even when background noise levels or room acoustics change.

- › Real-time processing of announcements and ambient noise data
- › High quality 48 kHz audio processing 32 bit resolution
- › Powerful, is processing 20 input streams, 20 audio output streams and up to 16 microphones ANSM-01

SMART-DU1604 Adaptive audio processor



Smart function
Maintains speech clarity as acoustics and noise levels change

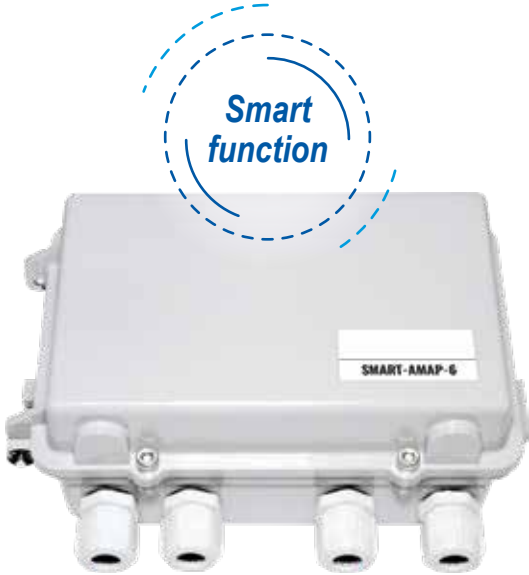
SMART-AMAP-6 Adaptive microphone aggregation point

The SMART-AMAP-6 is designed to process signals from up to six measurement microphones and transmit them digitally to adaptive audio processors. It uses return signals in adaptive filtering algorithms (AF) for each assigned zone to help optimise sound performance. Dedicated low-noise microphone amplifiers provide reliable operation over distances of up to 300 m, with individual monitoring of each SMART-ANSM-01.

- › Powered by PoE or an external power supply
- › Compatible with the PAVA device network
- › Up to 6 controllers in a network
- › Each controller supports up to 6 SMART-ANSM-01 microphones
- › 1 x LAN 100 Mb/s
- › 1 x 40-57 VDC
- › 6 x symmetric inputs + power supply 9 VDC

SMART-DU1604 Adaptive audio processor

						
482 x 44 x 325 mm	4.3 kg	-5 to +40 °C	<80%	IP20	EN 54-16 EN 54-4	1438-CPR-0948



SMART-ANSM-01 Adaptive noise sensing microphone

The measurement microphones are designed to measure sound level and frequency characteristics within a range of 100 Hz to 10 kHz (± 2 dB), and sound pressure levels from 50 dB to 120 dB. The microphone's specially designed electronics ensure stable measurement performance over long connection distances of up to 300 m. The dedicated housing is easy to install and has a discreet, attractive design with unobtrusive appearance, making it ideal for a wide range of facilities.

- › Wide range of measurement dynamics
- › Discreet and elegant design
- › Compact size
- › Cable length of 3 m included
- › High resistance to weather conditions

SMART-ANSM-01 Adaptive noise sensing microphone

SMART-ANSM-01A Ceiling mounted indoor housing for ANSM01

SMART-ANSM-01B Outdoor housing for wall or ceiling mounting for ANSM01

				
Ø34 x 130 mm	187 g	-40 to +55 °C	< 95%	IP65

Indoor housing
SMART-ANSM-01B



Loudspeakers



PAVA loudspeaker selection guide

Choose the loudspeaker type according to mounting location, sound coverage, acoustic needs, and environmental conditions.



Ceiling mounted loudspeakers

For recessed mounting in indoor or outdoor ceilings, where discreet design is required. A good choice for suspended ceilings, rooms and circulation areas.



Sound projectors

Select when sound must be directed from a wall, ceiling or pendant position, providing focused voice coverage, especially in industrial areas, warehouses and corridors.



Surface mounted loudspeakers

Choose where suspended ceilings are unavailable, or where fast wall or ceiling mounting is preferred. Compact and discreet design for corridors, staircases, and public circulation areas.



Wall mounted loudspeakers

For rooms and circulation areas where ceiling installation is not suitable.



Horn type loudspeakers

Ideal for outdoor, industrial or high-noise areas requiring powerful directional speech. The robust design keeps voice messages clear over longer distances in demanding environments.



Line array speaker columns

For indoor or outdoor areas requiring longer coverage, uniform sound levels and precise direction. They focus audio on the listening area and reduce output towards ceilings, floors or unwanted areas.



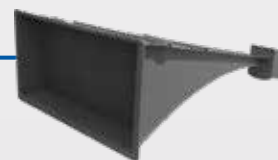
2-way premium loudspeakers

For projects requiring higher sound quality for both speech and music. Ideal for public areas where both music and alarm performance, clear announcements and elegant design all matter.



A/B Loudspeakers

Select where two independent A/B loudspeaker lines are needed from a single speaker position. They provide redundancy, maintain coverage if one line fails and keep the installation cleaner with fewer visible loudspeakers.



Special loudspeakers

For demanding applications such as large open spaces, tunnels or hazardous areas. Designed for wide coverage, long-distance directionality or high environmental protection.

Ceiling mounted loudspeakers

ABT-S206B Ceiling mounted loudspeaker

A cost-effective solution for projects requiring clear voice messages, discreet ceiling installation, and the highest level of speech intelligibility even at high noise levels.

- › 6 W ceiling mounted loudspeaker for indoor environments
- › Suitable for environments with high noise levels
- › For suspended ceilings at both standard and high ceiling-to-floor distances
- › The highest level of speech intelligibility



ABT-S206B WHITE Ceiling mounted loudspeaker, Steel, 6 W, EN 54-24 ○

ABT-S206B BLACK Ceiling mounted loudspeaker, Steel, 6 W, EN 54-24 ●

									
Ø199 x 115 mm	1 kg	6 / 3 / 1.5 / 0.75 W	SPL@1 m, rated power, 101 dB	120 - 20000 Hz	- 10 to +55 °C	< 95%	IP32	EN 54-24	1438-CPR-0605

ABT-S206F Ceiling mounted loudspeaker

A durable ceiling-mounted solution for applications requiring excellent acoustic performance and aesthetics design.

- › 6 W ceiling mounted loudspeaker for both indoor and outdoor applications
- › For suspended ceilings at both standard and high ceiling-to floor distances
- › Excellent acoustic parameters with high aesthetics
- › The highest level of both music and speech intelligibility for clear emergency guidance
- › Durable design with IK07 impact resistance



Ceiling speaker rated for outdoor use

ABT-S206F Ceiling mounted loudspeaker, Metal, 6 W, IP54, IK07 ○

									
Ø204 x 130 mm	1.3 kg	6 / 3 / 1.5 / 0.75 W	SPL@1 m, rated power, 97 dB	82 - 20000 Hz	- 25 to +70 °C	< 95%	IP54	EN 54-24	1438-CPR-0622

ABT-S186 Ceiling mounted loudspeaker

A cost effective solution for standard indoor ceiling installations where clear voice messages, discreet aesthetics and strong acoustic performance are required.

- › 6 W ceiling mounted loudspeaker for indoor environments
- › For use in environments with high acoustic levels
- › The highest level of speech intelligibility for clear emergency guidance



ABT-S186 Ceiling mounted loudspeaker, ABS, 6 W, EN 54-24 ○

									
Ø175 x 75 mm	0.6 kg	6 / 3 / 1.5 / 0.75 W	SPL@1 m, rated power, 99 dB	120 - 20000 Hz	- 10 to +55 °C	< 95%	IP32	EN 54-24	1438-CPR-0648

ABT-S106 Ceiling mounted loudspeaker

A compact, cost-effective solution for indoor ceiling installations and humid indoor environments, where space is limited, and clear voice messages are required.

- › 6 W ceiling-mounted loudspeaker for indoor environments
- › Compact design for small spaces
- › The highest speech intelligibility for clear emergency guidance
- › Suitable for indoor (type A) and humid (type C) working environments
- › Ideal for bathrooms and humid indoor areas



ABT-S106 Ceiling mounted loudspeaker, Steel, 6 W, EN 54-24 ○

									
Ø114 x 111 mm	0.7 kg	6 / 3 / 1.5 / 0.75 W	SPL@1 m, rated power, 88 dB / 180° (1kHz)	100 - 20000 Hz	- 10 to +55 °C	< 95%	IP32	EN 54-24	1438-CPR-0635

ABT-S226 Ceiling mounted loudspeaker

A cost effective indoor ceiling mounted solution for projects requiring clear voice messages, discreet installation, in environments with high noise levels.

- › 6 W ceiling mounted loudspeaker for indoor environments
- › Suitable for suspended ceilings at both standard and high ceiling-to-floor distances
- › Perfect for any room, circulation routes, shopping centers, offices, schools, hotels, hospitals, and industrial buildings
- › For use in environments with high noise levels
- › The highest level of speech intelligibility for clear emergency guidance



ABT-S226 Ceiling mounted loudspeaker, Steel, 6 W, EN 54-24 ○

									
Ø220 x 115 mm	1.4 kg	6 / 3 / 1.5 / 0.75 W	SPL@1 m, rated power, 101 dB	120 - 20000 Hz	- 10 to +55 °C	< 95%	IP32	EN 54-24	1438-CPR-0898

ABT-S2010 Ceiling mounted loudspeaker

A higher-power ceiling-mounted solution for projects requiring an elegant look, clear voice messages, strong acoustic performance, and reliable sound coverage in indoor areas.

- › 10 W ceiling mounted loudspeaker for indoor environments
- › Suitable for suspended ceilings at both standard and high ceiling-to-floor distances
- › High efficiency that ensures the highest level of speech intelligibility



ABT-S2010 Ceiling mounted loudspeaker, Steel, 10 W, EN 54-24 ○

									
Ø200 x 110 mm	1.4 kg	10 / 5 / 2.5 / 1.25 W	SPL@1 m, rated power, 104 dB / 170° (1kHz)	150 - 20000 Hz	- 10 to +55 °C	< 95%	IP32	EN 54-24	1488-CPR-0170/W

Sound projectors

ABT-P10 Sound projector

A robust, cost-effective solution for projects requiring clear directional sound, flexible wall or ceiling mounting and a elegant design in humid or demanding conditions.

- › 10 W sound projector
- › Ideal for both ceiling and wall Installation
- › Designed to achieve directional sound emission
- › Due to resistance to weather conditions, the loudspeakers prove excellent in industrial halls, warehouses, as well as partly open spaces exposed to outdoor weather conditions
- › High sound quality in music and speech emission

Precise sound direction
towards required area



ABT-P10 Ceiling mounted loudspeaker, Steel, 6 W, EN 54-24 ○

									
Ø135 x 205 mm	1.6 kg	10 / 5 / 2.5 / 1.25 W	SPL@1m, rated power, 100 dB	130 - 20000 Hz	- 25 to +70 °C	< 95%	IP66	EN 54-24	1438-CPR-0701

ABT-P10P Sound projector

A loudspeaker designed for projects requiring clear voice messages in spaces where standard ceiling loudspeakers are too far from the listening area.

- › 10 W sound projector
- › The loudspeaker is intended for pendant mounting, featuring an extra junction box that allows for easy and fast installation
- › Used wherever the distance from ceiling mounted speaker is too large
- › High sound quality in music and speech emission



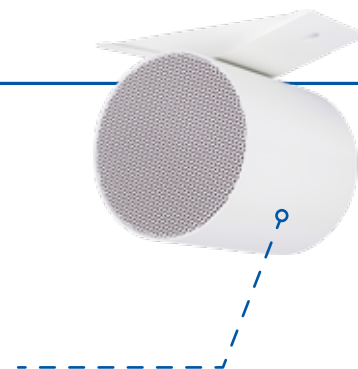
ABT-P10P Sound projector, ABS, 10 W, EN 54-24 ○

									
Ø135 x 205 mm	2 kg	10 / 5 / 2.5 / 1.25 W	SPL@1 m, rated power, 100 dB	130 - 20000 Hz	- 25 to +70 °C	< 95%	IP66	EN 54-24	1438-CPR-0701

ABT-P10BD Bidirectional sound projector

A robust bidirectional voice alarm solution for demanding environments, delivering sound in opposite directions for powerful coverage, clear speech intelligibility and flexible wall or ceiling mounting.

- › 10 W bidirectional sound projector
- › Fireproof casing with ceramic block and thermal fuse
- › IP65 housing for demanding outdoor environments
- › Best use: a robust solution for projects requiring clear voice messages in corridors, hallways, and circulation areas where sound must be distributed in both directions



Fireproof casing
with ceramic block
and thermal fuse

ABT-P10BD Bidirectional sound projector, Aluminium, 10 W, EN 54-24 ○

									
Ø143 x 210 mm	2.4 kg	10 / 6 / 3 / 1.5 W	SPL@1 m, rated power, 98 dB	79 - 17500 Hz	- 25 to +70 °C	< 95%	IP65	EN 54-24	1438-CPR-1029

ABT-P20 Sound projector

A robust solution for projects requiring powerful directional sound, clear speech intelligibility, and flexible wall or ceiling mounting in demanding environments.

- › 20 W sound projector
- › For both ceiling and wall installation
- › Excellent in industrial halls, warehouses, as well as partly open spaces exposed to outdoor weather conditions
- › Fireproof casing with ceramic block and thermal fuse
- › High sound quality in music and speech emission



ABT-P20 Sound projector, Aluminium, 20 W, EN 54-24 ○

									
Ø143 x 210 mm	2.4 kg	20 / 10 / 5 / 2.5 W	SPL@1 m, rated power, 102 dB	130 - 20000 Hz	- 25 to +70 °C	< 95%	IP66	EN 54-24	1438-CPR-0702

Surface mounted loudspeakers

ABT-SW176 Surface mounted loudspeaker

A cost-effective and compact surface mounted solution for projects requiring clear voice messages, flexible installation and discreet design where a built-in solution is not desired or possible.

- › 6 W surface mounted loudspeaker for indoor environments
- › The loudspeaker can be mounted both on a wall and on a ceiling
- › Ideal for any circulation routes and in staircases located in shopping centres, offices, schools, hotels, hospitals, and industrial buildings
- › High sound quality in music and speech emission



ABT-SW176 WHITE Surface mounted loudspeaker, Steel, 6 W, EN 54-24 ○

ABT-SW176 BLACK Surface mounted loudspeaker, Steel, 6 W, EN 54-24 ●

Ø170 x 80 mm	1.2 kg	6 / 3 / 1.5 / 0.75 W	SPL@1 m, rated power, 97 dB	130 - 20000 Hz	- 10 to +55 °C	< 95%	IP32	EN 54-24	1438-CPR-0738

Wall mounted loudspeakers

ABT-W6W Wall mounted loudspeaker

A discreet wall mounted solution for projects requiring clear voice messages, flexible installation and good sound quality in standard indoor areas, especially where suspended ceilings are not available.

- › 6 W wall mounted loudspeaker for indoor environments
- › Perfect on any circulation routes and in staircases located in shopping centres, offices, schools, hotels, hospitals, industrial buildings, technical rooms, and rooms without suspended ceiling
- › High sound quality in music and speech emission



ABT-W6W Wall mounted loudspeaker, MDF, 6 W, EN54-24 ○

254 x 196 x 78 mm	1.8 kg	6 / 3 / 1.5 / 0.75 W	SPL@1 m, rated power, 96 dB / 180° (1 kHz)	130 - 20000 Hz	- 10 to +55 °C	< 95%	IP32	EN 54-24	1438-CPR-0699

ABT-W6 Wall mounted loudspeaker

An elegant wall mounted solution for projects requiring clear voice messages, strong aesthetics and flexible installation in indoor areas.

- › 6 W wall mounted loudspeaker for indoor environments
- › Suitable for recessed installation, making it ideal for spaces where aesthetics is important
- › Perfect in staircases, corridors, hotel rooms, classrooms, technical rooms, underground garages and rooms without suspended ceiling
- › High sound quality in music and speech emission



ABT-W6 WHITE Wall mounted loudspeaker, Steel, 6 W, EN 54-24 ○

ABT-W6 BLACK Wall mounted loudspeaker, Steel, 6 W, EN 54-24 ●

									
260 x 180 x 80 mm	1.8 kg	6 / 3 / 1.5 / 0.75 W	SPL@1 m, rated power, 101 dB / 180° (1 kHz)	120 - 20000 Hz	- 10 to +55 °C	< 95%	IP32	EN 54-24	1438-CPR-0654

ABT-W6F Wall mounted loudspeaker

A highly durable wall mounted solution for projects requiring clear voice messages, strong aesthetics and reliable performance in both indoor and outdoor demanding environments.

- › 6 W wall mounted loudspeaker for indoor and outdoor applications
- › Flush mounting option, ideal for interior spaces where high aesthetics is required
- › Perfect in staircases, corridors, hotel rooms, classrooms, technical rooms, underground garages and rooms without suspended ceiling
- › Durable design with IK07 impact resistance
- › High sound quality in music and speech emission
- › Highest level of speech intelligibility for clear emergency guidance



Flush mounting option with outdoor-rated protection

ABT-W6F Wall mounted loudspeaker, Steel, 6 W, IP44 ○

									
260 x 180 x 80 mm	1.8 kg	6 / 3 / 1.5 / 0.75 W	SPL@1 m, rated power, 99dB / 135 (1 KHz)	120 - 20000 Hz	-25 to +70 °C	< 95%	IP44	EN 54-24	1438-CPR-0654

Horn type loudspeakers

ABT-T1410 / ABT-T2015 Horn type loudspeakers

A robust solution for projects requiring powerful, directional voice messages in outdoor, industrial and a high level of background noise.

- › Horn type loudspeakers for indoor and outdoor environments
- › Suitable for wall or ceiling mounting
- › Perfect for sport sites, at swimming pools, in expo and industrial halls, warehouses, open and underground car parks, and in open areas such as stadiums, parks, etc.
- › Directional characteristic of sound emission and the highest verbal communication understanding



ABT-T1410 Horn type loudspeaker, ABS, 10 W, EN 54-24 ●

ABT-T2015 Horn type loudspeaker, ABS, 15 W, EN 54-24 ●

									
Ø140 x 214 mm Ø200 x 258 mm	1.2 kg 1.5 kg	10 / 5 / 2.5 / 1.25 W 15 / 7.5 / 3.75 / 1.87 W	SPL@1 m, rated power, 101 dB / 355° (1 kHz) SPL@1 m, rated power, 109 dB / 132° (1 kHz)	400 - 6300 Hz 400 - 8000 Hz	-25 to +70 °C	< 95%	IP66	EN 54-24	1438-CPR-0801

ABT-T2430 Horn type loudspeaker

A powerful and robust solution for projects requiring clear directional voice messages, weather resistance and reliable operation in outdoor, industrial or high-noise environments.

- › 30 W horn type loudspeakers for indoor and outdoor environments
- › Suitable for wall or ceiling mounting
- › Perfect for sport sites, at swimming pools, in expo and industrial halls, warehouses, open and underground car parks, and in open areas such as stadiums, parks, etc.
- › Directional characteristic of sound emission and the highest verbal communication understanding



ABT-T2430 Horn type loudspeaker, ABS, 30 W, EN 54-24 ●

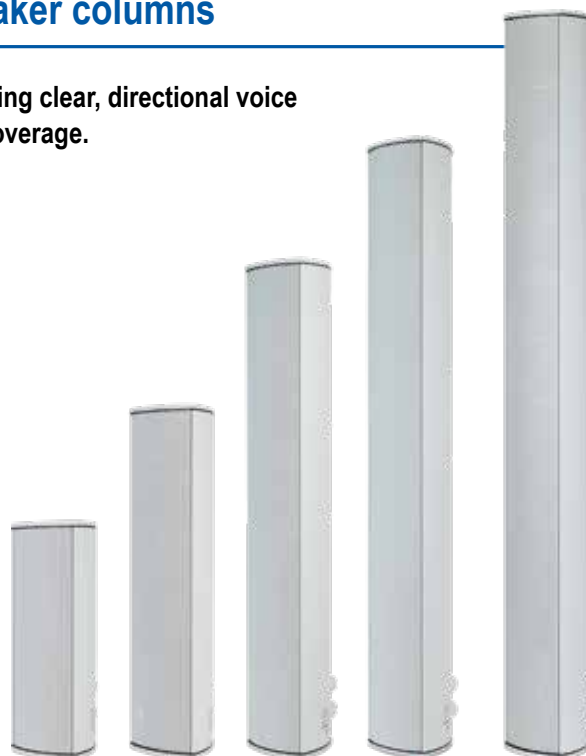
									
Ø233 x 325 mm	2.2 kg	30 / 15 / 7.5 / 3.75 W	SPL@1 m, rated power, 120 dB / 120° (1 kHz)	400 - 7500 Hz	-25 to +70 °C	< 95%	IP66	EN 54-24	1438-CPR-0640

Line array speaker columns

ABT-LA10B / 20B / 30B / 40B Line array speaker columns

Powerful loudspeaker, designed for indoor and outdoor areas requiring clear, directional voice messages, uniform sound levels and reliable long-distance sound coverage.

- › Line-array loudspeaker columns available from 10 W to 40 W
- › Both in outdoor and indoor environments
- › High sound quality of both speech and music
- › Highest level of speech intelligibility
- › The sound is directed precisely toward the intended audio area, avoiding unwanted locations such as the ceiling or floor
- › Ideal for mounting on a ceiling, wall or pole
- › Mechanical impact rating IK07



ABT-LA10B Line array speaker, Aluminium, 10 W, IP65, IK07, EN 54-24 ●

ABT-LA20B Line array speaker, Aluminium, 20 W, IP65, IK07, EN 54-24 ●

ABT-LA30B Line array speaker, Aluminium, 30 W, IP65, IK07, EN 54-24 ●

ABT-LA40B Line array speaker, Aluminium, 40 W, IP65, IK07, EN 54-24 ●

95 x 268 x 100 mm	2 kg	10 / 5 / 2.5 W	SPL@1 m, rated power, 94 dB / 210° H / 130° V	160 Hz - 20000 Hz	-25 to +55 °C	< 95%	IP65	EN 54-24	1438-CPR-1014
95 x 418 x 100 mm	3 kg	20 / 10 / 5 W	SPL@1 m, rated power, 99 dB / 200° H / 80° V						
95 x 588 x 100 mm	4.2 kg	30 / 15 / 7.5 W	SPL@1 m, rated power, 102 dB / 200° H / 60° V						
95 x 738 x 100 mm	5.3 kg	40 / 20 / 10 W	SPL@1 m, rated power, 104 dB / 200° H / 40° V						

ABT-LA30 / LA60 Line array speaker columns

Designed for indoor and outdoor areas requiring longer coverage, precise sound direction and flexible sound beam adjustment for different listening areas.

- › 30 W and 60 W line array loudspeaker columns
- › Both for outdoor and indoor environments.
- › The sound is directed precisely towards the intended audio area, avoiding unwanted locations such as the ceiling or floor
- › Adjustable sound beams for more flexible coverage of different listening areas



Adjustable sound beam for precise coverage

ABT-LA30 Line Array speaker, Aluminium, 30 W, IP65, EN54-24 ●

ABT-LA60 Line Array speaker, Aluminium, 60 W, IP65, EN54-24 ●

510 x 80 x 110 mm	3.1 kg	30 / 15 / 7.5 / 3.8 W	SPL@1 m, rated power, 105 dB	141 - 20000 Hz	-25 to +70 °C	< 95%	IP65	EN 54-24	1438-CPR-0574
870 x 80 x 110 mm	4.9 kg	60 / 30 / 15 / 7.5 W	SPL@1 m, rated power, 109 dB	136 - 20000 Hz					

2-way premium loudspeakers

ABT-S2030 Ceiling mounted 2-way loudspeaker

Indoor ceiling installations requiring higher power, excellent sound quality, and a discreet design to blend into any interior.

- › 30 W ceiling mounted 2-way loudspeaker for indoor environments
- › Two-way design for excellent sound quality
- › The loudspeaker is easy to install in suspended ceilings
- › Discreet design that complements interior spaces without disrupting their design



ABT-S2030 Ceiling mounted 2-way loudspeaker, Steel, 30 W, EN 54-24 ○

									
Ø204 x 130 mm	2 kg	30 / 20 / 15 / 10 W	SPL@1 m, rated power, 102 dB	70 - 20000 Hz	-10 to +55 °C	< 95%	IP32	EN 54-24	1438-CPR-1086

ABT-M15 / M30 / M50 Wall mounted 2-way loudspeaker

Projects requiring high-quality speech and music reproduction and an elegant wall mounted solution for public areas.

- › Wall mounted 2-way loudspeakers for indoor and outdoor applications
- › High sound quality: two-way design provides full and clear sound
- › Ideal for use in galleries, restaurants, schools, hotels, hospitals, and other public spaces
- › Elegant design suitable for a wide variety of interiors



ABT-M15 Wall mounted 2-way loudspeaker, ABS, 15 W, EN 54-24 ○

ABT-M30 Wall mounted 2-way loudspeaker, ABS, 30 W, EN 54-24 ○

ABT-M50 Wall mounted 2-way loudspeaker, ABS, 50 W, EN 54-24 ○

									
210 x 130 x 120 mm 262 x 160 x 153 mm 330 x 205 x 192 mm	1.8 kg 2.5 kg 3.7 kg	15 / 7.5 / 3.75 / 1.8 W 30 / 15 / 7.5 / 3.75 W 50 / 25 / 12.5 / 6.25 W	SPL@1 m, rated power, 93 dB SPL@1 m, rated power, 98 dB SPL@1 m, rated power, 103 dB	70 - 20000 Hz 60 - 20000 Hz 50 - 20000 Hz	-25 to +70 °C	< 95%	IP65	EN 54-24	1438-CPR-1030

A/B loudspeakers

ABT-S226/AB Ceiling mounted A/B loudspeaker

Indoor ceiling installations requiring A/B line redundancy, reliable voice alarm coverage and a cleaner ceiling layout with fewer visible loudspeakers

- › Ceiling mounted A/B loudspeaker for indoor environments
- › Designed for rooms where a single ceiling loudspeaker must connect to two independent A/B loudspeaker lines
- › Provides line redundancy from one discreet ceiling position
- › Helps maintain voice alarm coverage if one line fails
- › Highest quality of sound even in difficult conditions



ABT-S226/AB Ceiling mounted AB loudspeaker, Steel, 2 x 6 W, EN54-24 ○

									
Ø220 x 115 mm	1.8 kg	2 x 6 / 3 / 1.5 / 0.75 W	SPL@1m, rated power, 99 dB	150 - 20000 Hz	-10 to +55 °C	< 95%	IP32	EN 54-24	1438-CPR-0899

ABT-SW176/AB Surface mounted A/B loudspeaker

Indoor surface-mounted installations requiring A/B line redundancy, reliable voice alarm coverage, and a discreet design for public circulation areas.

- › Surface mounted A/B loudspeaker suitable for indoor environments
- › Suitable for both wall and ceiling installation
- › Connects to two independent A/B loudspeaker lines
- › Provides line redundancy from one discreet surface-mounted position
- › Perfect on any circulation routes and in staircases located in shopping centres, offices, schools, hotels, hospitals, and industrial buildings
- › Discreetly blends into its environment due to its compact size and clean white finish



ABT-SW176/AB Surface mounted AB loudspeaker, Steel, 2 x 6 W, EN 54-24 ○

									
Ø170 x 80 mm	1.3 kg	2 x 6 / 3 / 1.5 / 0.75 W	SPL@1 m, rated power, 97 dB	150 - 20000 Hz	-10 to +55 °C	< 95%	IP32	EN 54-24	1438-CPR-0885

ABT-W6W/AB Wall mounted A/B loudspeaker

Indoor wall mounted installations requiring A/B line redundancy, reliable voice alarm coverage, and high sound quality in public circulation areas.

- › Wall mounted A/B loudspeaker for indoor environments
- › Connects to two independent A/B loudspeaker lines
- › Provides line redundancy from one discreet wall mounted position
- › Perfect on any circulation routes and in staircases located in shopping centres, offices, schools, hotels, hospitals, and industrial buildings
- › High sound quality in music and speech emission



ABT-W6W/AB Wall mounted AB loudspeaker, MDF, 2 x 6 W, EN 54-24 ☐

									
254 x 196 x 78 mm	2 kg	2 x 6 / 3 / 1.5 / 0.75 W	SPL@1 m, rated power, 96 dB	150 - 20000 Hz	-10 to +55 °C	< 95%	IP32	EN 54-24	1438-CPR-0884

ABT-W6/AB Wall mounted A/B loudspeaker

Indoor wall mounted installations requiring A/B line redundancy, reliable voice alarm coverage, and a discreet design with fewer visible loudspeakers.

- › Wall mounted A/B loudspeaker for indoor environments
- › Suitable for recessed installation for spaces where aesthetics is important
- › Ideal for classrooms, corridors, technical rooms, underground garages and rooms without suspended ceiling
- › Connects to two independent A/B loudspeaker lines
- › Provides line redundancy from one discreet wall-mounted position
- › High sound quality for speech and music



**A/B redundancy
with recessed
installation option**

ABT-W6/AB Wall mounted AB loudspeaker, Steel, 2 x 6 W, EN 54-24 ☐

									
260 x 180 x 80 mm	2.3 kg	2 x 6 / 3 / 1.5 / 0.75 W	SPL@1 m, rated power, 104 dB / 165° (1 kHz)	150 - 20000 Hz	-10 to +55 °C	< 95%	IP32	EN 54-24	1438-CPR-1145

Special loudspeakers

ABT-OMN100 Omnidirectional loudspeaker

Large volume indoor spaces requiring wide, uniform sound coverage from one pendant loudspeaker, especially where ceiling height or open layouts make standard loudspeakers less effective and fewer speaker positions are preferred.

- › 100 W omnidirectional pendant loudspeaker for indoor environments
- › 360° coverage for uniform sound distribution across large open areas
- › High speech intelligibility for clear emergency guidance
- › Ideal for use in spacious areas like airports, high-bay warehouses, sports arenas, shopping malls, train stations, museums, and similar locations
- › Effective sound coverage of areas up to 900 m²

ABT-OMN100 Omnidirectional loudspeaker, Aluminium, 100 W



Covers up to 900 m²
from a single position

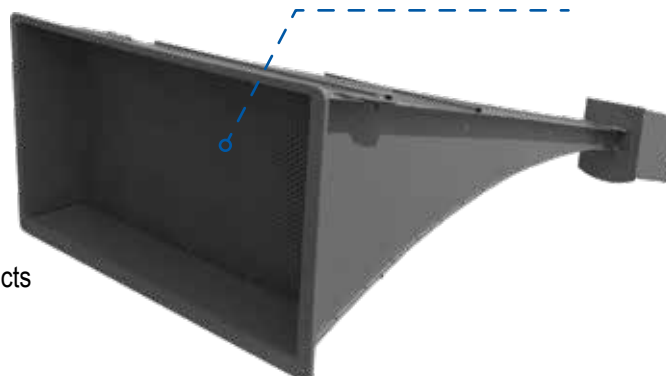
Ø750 x 400 mm	24 kg	100 / 50 / 25 W	SPL@1 m, rated power, 113 dB / 145° H / 145° V	60 - 20000 Hz	-10 to +55 °C	< 95%	IP42	EN 54-24	1438-CPR-1113

ABT-TNL100 Long range tunnel speaker

Tunnel voice evacuation projects where high power output, long distance coverage, speech clarity, and reduced echo are critical.

- › 100 W long range tunnel loudspeaker for outdoor environments
- › Highly directional sound for tunnel environments
- › Used in tunnels that require voice evacuation systems for clear audio guidance to safety
- › Excellent speech intelligibility for emergency communication
- › Helps direct sound towards the listening area and reduce echo effects

Directional sound designed
to reduce tunnel echo



ABT-TNL100 Long range tunnel speaker, Steel, 100 W, EN 54-24

1714 x 1020 x 450 mm	34 kg	100 / 50 W	SPL@1 m, rated power, 131 dB / 22° (1 kHz)	250 - 8000 Hz	-25 to +70 °C	< 95%	IP66	EN 54-24	1438-CPR-0778

ETH20MD Explosion proof horn loudspeaker

Hazardous industrial areas requiring clear voice messages, explosion-proof protection, and reliable operation in demanding environmental conditions.

- › 25 W explosion proof horn loudspeakers
- › Designed for use in potentially explosive gas and dust atmospheres
- › Ex db IIB+H2 Gb Ex tb IIIC Db II2GD T6 T5
- › Ex db IIC Gb Ex tb IIIC Db II2GD T6 T5
- › High degree IP66 protection to withstand the harsh off-shore and on-shore plants environmental conditions
- › Zone 1, zone 2, zone 21 and zone 22 areas



**Clear voice messages
in hazardous areas**

ETH20MD_IIB+H2	Explosion proof horn loudspeaker, Aluminium, 25 W, Ex d IIB + H2	●
ETH20MD_IIC	Explosion proof horn loudspeaker, Aluminium, 25 W, Ex d IIC	●

								
Ø270 x 444 mm	3.5 kg	6 / 12 / 20 / 25 W	SPL@1m, rated power, 112dB	650 - 10 000 Hz @ 6 W 450 - 9000 Hz @ 12 W 400 - 9000 Hz @ 20 W 350 - 10 000 Hz @ 25 W	-25 to +60 °C	< 95%	IP66	EN 60079-0 EN 60079-1 EN 60079-31

ETHY20MD Explosion proof horn loudspeaker

Hazardous industrial or marine areas requiring clear voice messages, explosion-proof protection and long-term resistance to demanding environmental conditions.

- › 25 W explosion-proof horn loudspeakers
- › Designed for potentially explosive gas and dust atmospheres
- › Ex db IIB+H2 Gb Ex tb IIIC Db II2GD T6 T5
- › Ex db IIC Gb Ex tb IIIC Db II2GD T6 T5
- › High degree IP66 protection to withstand the harsh off-shore and on-shore plants environmental conditions
- › Zone 1, zone 2, zone 21 and zone 22 areas
- › Stainless steel construction for higher corrosion resistance



ETHY20MD_IIB+H2	Explosion proof horn loudspeaker, Stainless steel, 25 W, Ex d IIB + H2	●
ETHY20MD_IIC	Explosion proof horn loudspeaker, Stainless steel, 25 W, Ex d IIC	●

								
Ø270 x 400 mm	7 kg	6 / 12 / 20 / 25 W	SPL@1m, rated power, 112 dB	650 - 10000 Hz @ 6 W 450 - 9000 Hz @ 12 W 400 - 9000 Hz @ 20 W 350 - 10000 Hz @ 25 W	-25 to +60 °C	< 95%	IP66	EN 60079-0 EN 60079-1 EN 60079-31

Network equipment



GS110TP Network switch

GS110TP switch is ideal for small and medium sized PAVA installations that require network connectivity and PoE powering local devices such as microphones, controllers, IP interfaces and other networked equipment. This reduces cabling complexity, while fibre SFP uplinks also make it suitable for longer cable runs or connection to the main network.

- › 8-port Gigabit PoE smart managed switch with 2 fibre SFP uplinks
- › Powers connected PoE devices through a single Ethernet cable, reducing cabling complexity
- › Up to 15.4 W per port, with a total PoE budget of 46 W
- › Enhanced VLAN, QoS, access control list (ACL), 802.1x port authentication (MD5), rate limiting and IGMP snooping for secure and prioritised network traffic
- › 2 fibre SFP uplinks for longer-distance network connections
- › Fanless compact design for silent operation in noise-sensitive areas
- › Automatic power-saving features to help reduce energy use

GS110TP Switch, 8xPoE (max 46 W), 2 x SFP; no spanning-tree no STP



236 x 102 x 27 mm



0.7 kg



0 to +40 °C

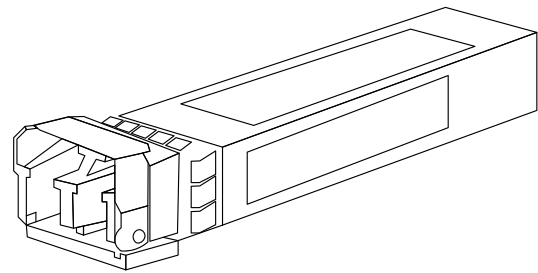


< 90%



SFP modules

An SFP module is a small plug-in transceiver used to connect network switches or PAVA devices to fibre or copper cabling. It is mainly used for longer-distance links and flexible connections between racks, buildings, floors or technical rooms. SFP modules help extend the PAVA network beyond standard Ethernet distances, improve installation flexibility and support reliable communication.



Multi-mode fiber (MMF) SFP modules

Used for short to medium-distance fiber links, typically within the same building or campus. Ideal for reliable high-speed connections between nearby racks, switches or technical rooms, with reduced risk of electrical interference.

SF-MM31002D-GP	SFP module: 1.25 Gbps SX+ 1310 nm LC DDM MMF 2 km
SF-MM31WD055D-GP	SFP module: WDM 1.25 Gbps 1310 nm Tx/1550nm LC DDM MMF 550 m
SF-MM55WD055D-GP	SFP module: WDM 1.25 Gbps 1510 nm Tx/1350 nm LC DDM MMF 550 m
SF-MMS55WD055D-GP	SFP module: WDM 1.25 Gbps 1510 nm Tx/1350 nm SC DDM MMF 550 m
SF-MMS31WD055D-GP	SFP module: WDM 1.25 Gbps 1310 nm Tx/1510 nm SC DDM MMF 550 m

Single-mode fiber (SMF) SFP modules

Used for long-distance fiber links between buildings or remote technical areas. Ideal for large or distributed PAVA installations requiring stable communication over longer distances.

SF-SMS31WD020D-GP	SFP module: WDM 1.25 Gbps 1310 nm Tx/1550 nm SC DDM SMF 20 km
SF-SMS55WD020D-GP	SFP module: WDM 1.25Gbps 1550 nm Tx/1310 nm SC DDM SMF 20 km

Copper (RJ45) SFP module

Used when an SFP port needs to connect to standard Ethernet copper cabling instead of fibre. Ideal for short links up to 100 m using existing Cat5e/Cat6 cabling, helping reduce installation cost and complexity.

SF-CP100C-GP	SFP module: 10/100/1000 TX UTP 100 m
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MMF	Multi-mode fiber
DDM	Digital Diagnostics Monitoring
SMF	Single-mode fiber
WDM	Wavelength Division Multiplexing (Tx and Rx on one single fiber)

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