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Acoustic communication and security systems.

Thanks to the many years of worldwide experience of Neumann Elektronik GmbH employees, we are able to quickly identify new developments in our customers' markets and offer competent solutions for the information and safety technology issues.

Partnership

We regard ourselves as a strong partner in the development of new products. Together we develop new ideas and concepts that can satisfy public security needs even better than before.

Internationality

As an expanding, internationally oriented company, we can rely on our numerous sales partners with excellent know-how worldwide. About 50 % export share speaks for itself, as do our internationally successfully realised major projects.

Innovation

Through many years of extensive practice and forward-thinking thinking, Neumann was the first to establish the decentralised IP world - serverless - with the patented DS-6 technology in information and security technology.

Quality

It is no coincidence that Neumann is one of those who, in addition to DIN EN ISO 9001:2015 certification, also fulfil the strict ATEX regulations from the EU Directive 2014/34/EU and IECEx approvals. Long before the introduction of ISO 9001, the name Neumann stood for a quality standard that is still reflected today in the operational safety and long service life of our devices and systems.

Service

One thing distinguishes all systems from Neumann Elektronik GmbH: The competent service team takes over the maintenance of your system and carries out technical modifications on request. You can rely on us at all times.



Neumann Elektronik GmbH develops and manufactures tailor-made complete solutions for your individual tasks in Information and security technology.

Our services:

**System and product manufacturing
Research and development
Project management and consulting
Training
Service**



Call stations





MTSD DS-6

IP call station

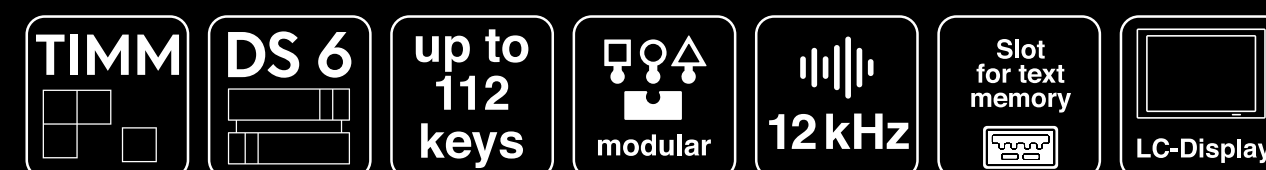
with optional MTSD additional housing

The MTSD DS-6 call station is used in the decentralised communication system DS-6.

It enables direct speech connections with other call stations, loudspeaker announcements and also programmable local functions. A built-in display offers additional view options for status and fault indications in plain text.

The call station has 16 line keys. With suitable additional housings, an extension to 64 or 112 line keys is possible.

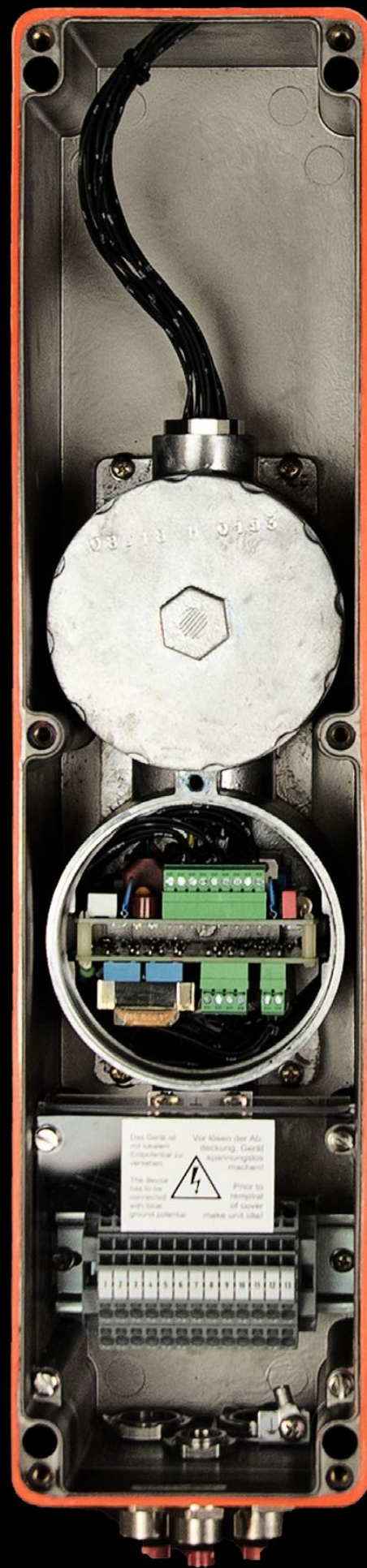
In addition to the destination keys for WL/EL, the call station has a volume control and a voice memory.





Explosion-proof call stations







Speakers for difficult environments

certified
EN 54-24



Communication made to measure

We offer customised complete solutions for your individual tasks in the field of railways / public transport and for industry.

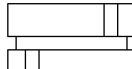
All systems from Neumann Elektronik GmbH are designed according to the variable modular principle and are therefore expandable as well as investment safe.

The proven DS-6 communication system is freely scalable and grows with your requirements.



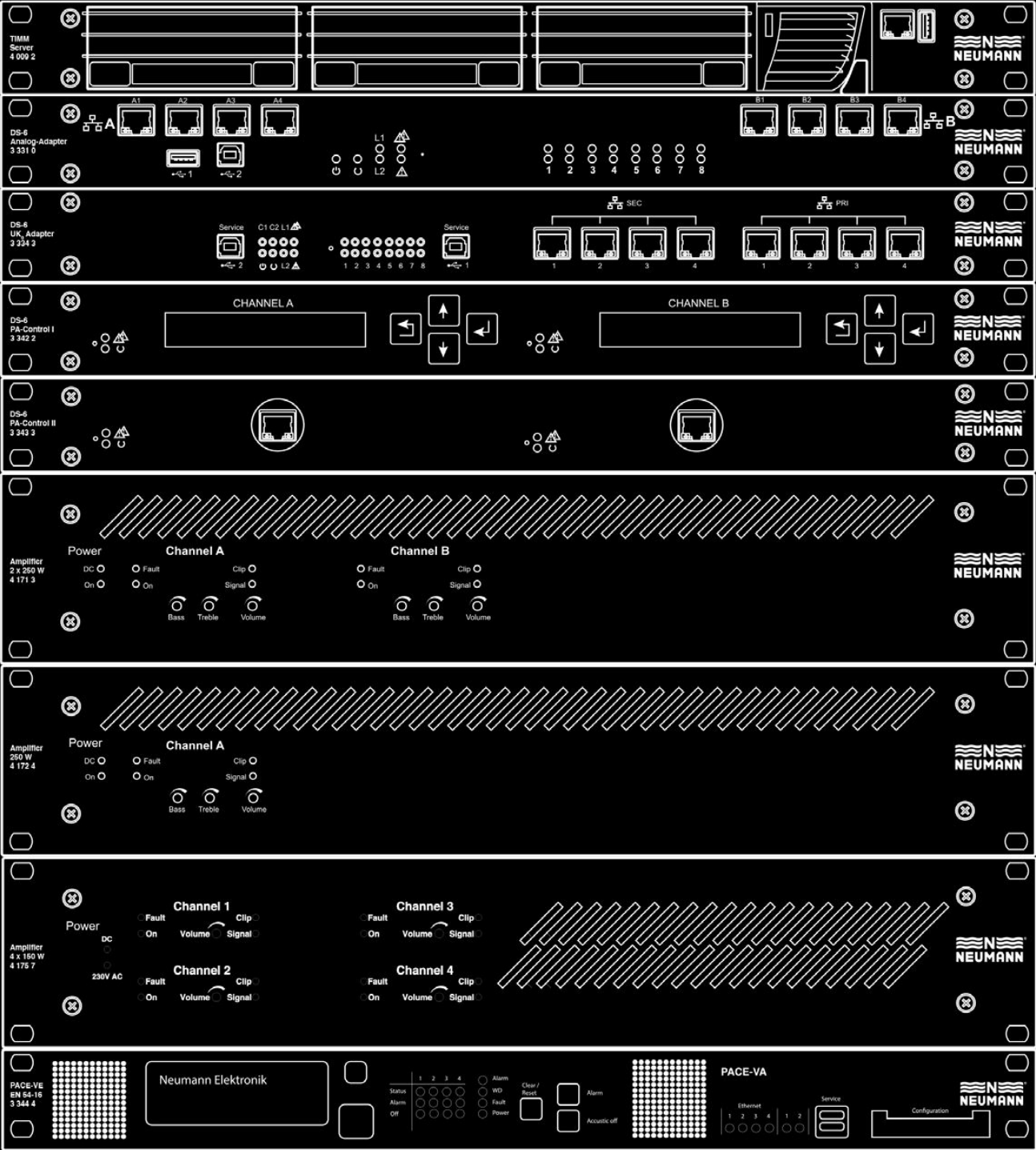
Emergency call & information terminals



2 Wire Technology 	TIMM 	 emergency monitoring	EMV Safe 		NO 	Slot for text memory 
 earth fault monitoring	UP TO 6 km	 redundant		 Subordination circuit	8 Ω Broadband loudspeaker	U _{k0}
 7 kHz	serverless scalable 	CLASS D	up to 112 keys	100 Volt technology	up to 64 keys	4-way switch 
 12 kHz	PACE EN 54 - 16	DS 6 	 Text memory	19" 		
Ex	ELA	Tunnel use 	 impedance monitoring	 up to 12 Zone	 A / B redundant	serverless 
 Level limitation	PA control compatible	High resistance 	 system cables	 Superb transmission	 modular	25W / 100V additional amplifier
 overload monitoring	IP65	 ultra compact	ANALOGUE  DIGITAL	 pre-assembled system cables	1HE 19" 4x 150W / 200W or 2x 300W / 400W or 1x 600W / 800W	

and more

System modules





DS-6 Adapter



DS-6 U_{k0} Adapter II



The DS-6 U_{k0} Adapter II serves as an adapter or interface for the connection of digital U_{k0} stations to the decentralised communication system DS-6.

A total of eight digital stations can be connected with cable lengths of up to 6 km without additional supply/power supply. Two redundant 4-way switches are integrated in the DS-6 U_{k0} Adapter II to connect the eight U_{k0} stations to the DS-6 network.

The U_{k0} Adapter II as a single device forms a small network node for eight digital U_{k0} subscribers without additional amplifiers. In addition, each switch has four Ethernet ports for redundant network configuration and redundant cascading of the devices.



DS-6 Analog Adapter



The DS-6 analogue adapter is used to connect analogue call stations, amplifiers and other analogue components to the DS-6 decentralised communication system.

The analogue adapter offers the possibility to connect eight call stations or eight amplifiers for a maximum of four loudspeaker circuits each. It is also possible to connect any combination of paging stations, amplifiers and analogue components. 2 redundant switches are integrated in the DS-6 analogue adapter, which connect the 8 analogue subscribers to each other.

As a single device, the analogue adapter thus forms a small network node for eight analogue subscribers. In addition, each switch has four Ethernet ports for redundant network construction and redundant cascading of the devices.

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ELA monitoring and control devices

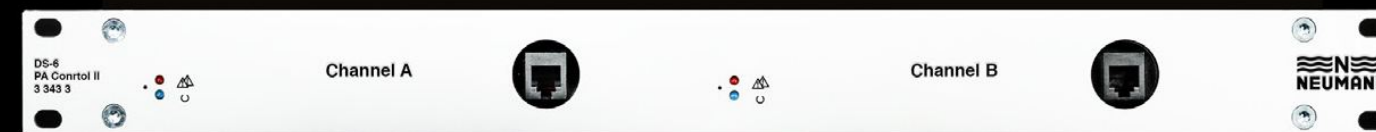
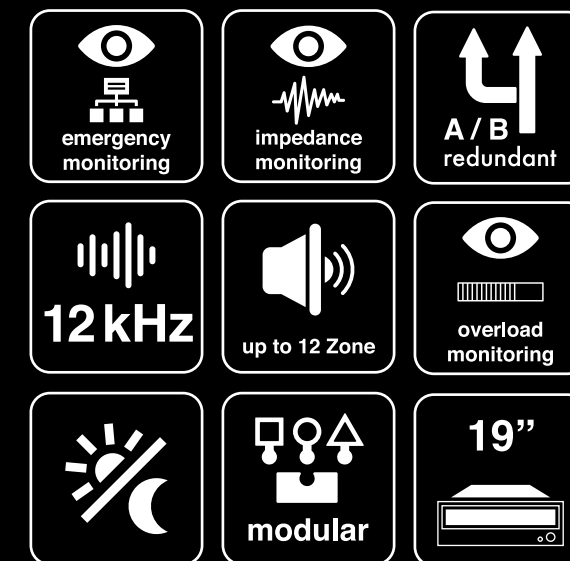


DS-6 PA-Control I

DS-6 PA-Control I and II combine as ELA control units the control and monitoring of a 100 V PA system with a maximum amplifier output of 2 x 250 W in a DS-6 system.

In its compact 19" design with one height unit, the units replace a large number of individual components, which all required a great deal of wiring. A modern sound reinforcement system with DS-6 PA-Controls can be wired almost completely with pre-fabricated system cables, either via the control panel with display or the serial interface, depending on the version of the PA-Control, or in the case of the PA-Control II, only via the serial interface on the unit.

A remote solution is also available as an option, in which case the serial interface is integrated into the network via additional components, which are available as accessories.



DS-6 PA-Control II

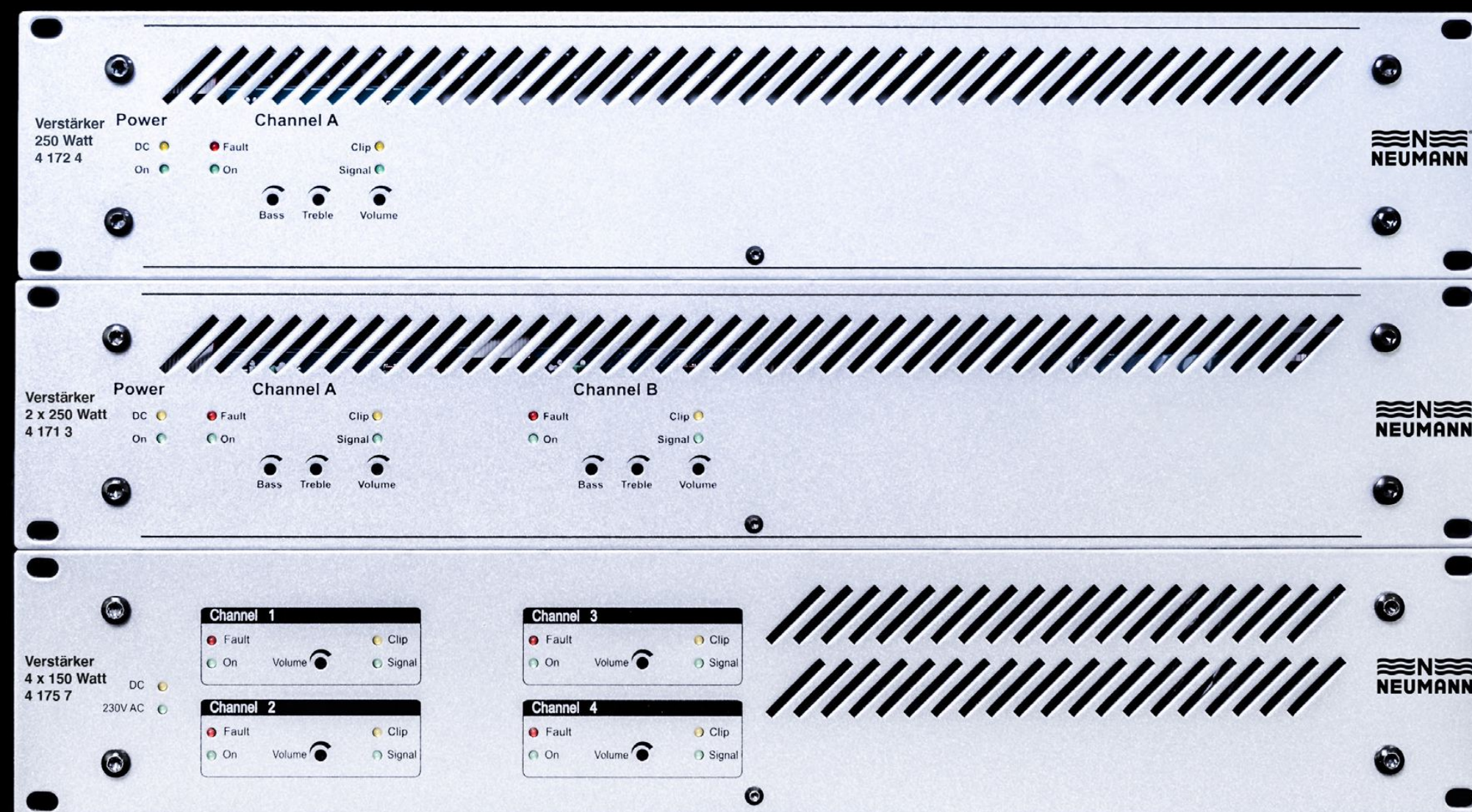
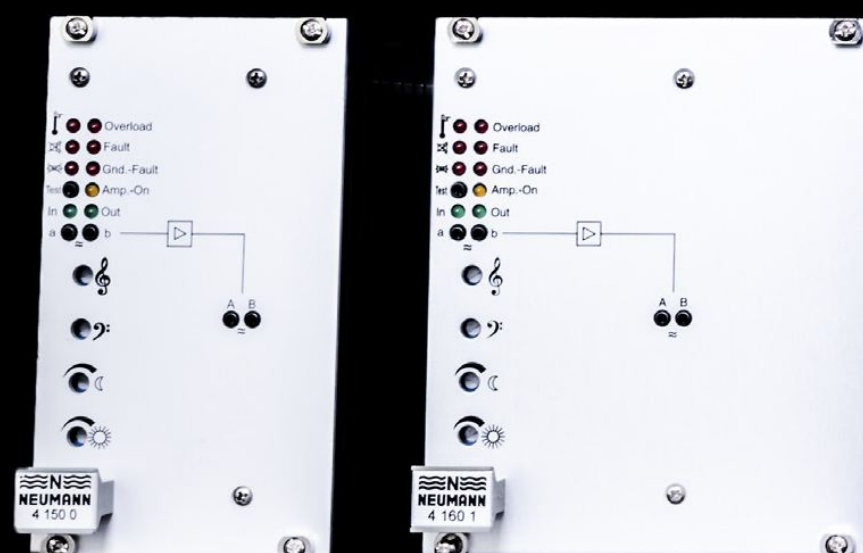
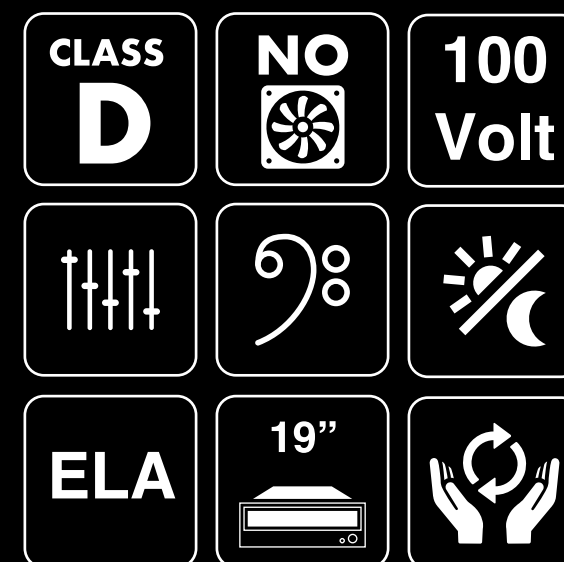
Integrated software packages allow for impedance monitoring, amplifier failure, overload and earth fault detection of the sound system to be configured.

As standard, sound reinforcement from one zone or loudspeaker circuit is possible with Neumann amplifiers, delivery number 4 172 4 (mono, 1 channel) or 4 171 3 (stereo, 2 channel).

By means of optional additional components which can be integrated into the unit, an expansion to up to 12 zones with the above-mentioned monitoring systems is possible. In addition, the cable loops can be monitored in zone one, as well as in the optional zone two, in the case of ring-shaped cabling, and in the event of an interruption, power can be supplied on both sides.



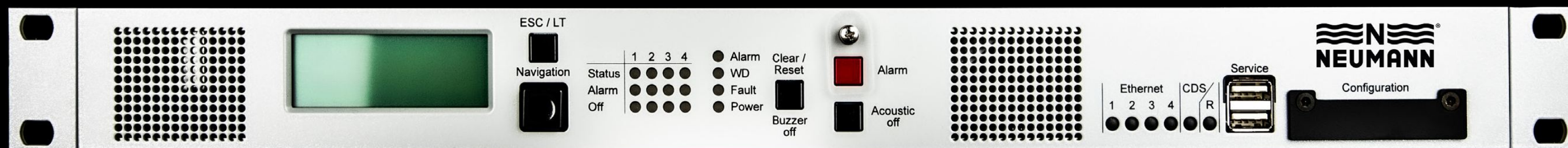
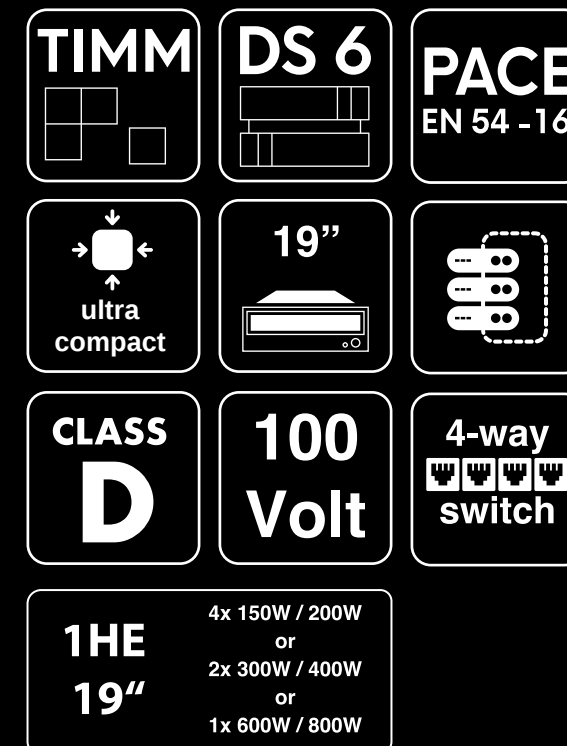
Amplifier





PACE-VA EN 54-16

certified
EN 54-16



The PACE-VA is an ultra-compact, multi-channel sound reinforcement system.

It is used to transmit alarm and evacuation announcements as well as general information and music with high quality.

The PACE-VA fulfils all requirements of EN 54-16 and is designed for use as a voice alarm system (SAA) in accordance with VDE0833-4 and supports gradual evacuation by configuring alarm sequencers. The high availability during operation, a free network topology as well as the possibility of redundant interconnection allows the application of PACE-VA for all security levels and in all building classes. Standard protocols are used to connect external network components. The PACE system structure and configuration is very simple due to the auto-discovery function within WeNet.

The monitoring of the transmission paths and the integrated error checking of all system interfaces and ports reduce the effort for inspection and maintenance. A comprehensive range of products and accessories enables flexible expansion and adaptation of the PACE-VA to different installation environments.

¹⁾ different models; product numbers according to individual requirements

Individual solutions

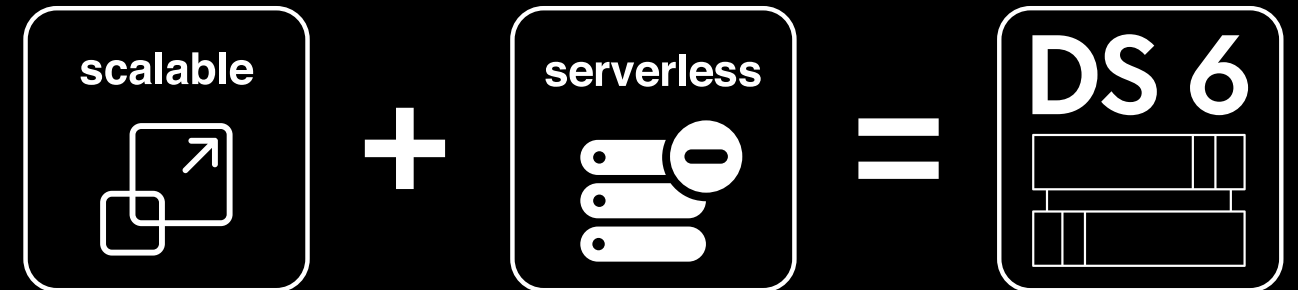
**Customised solutions
for unique requirements.
Integration of existing
and old installations.**

**Connection of analogue systems.
Adaptable use of communication
systems thanks to a build-to-order
service.**





Thanks to the serverless design, only 2 system components are required, connected by only one patch cable, to create a DS-6 network.



Total Information Management

TIMM enables a hierarchical structure of a system using an existing network - when pure serverless DS-6 solutions reach their limits. It links DS-6 systems, connects many standard systems and enables the integration into existing systems, such as management systems (control centres). The integrated database enables central configuration, status signalling and logging and central maintenance and diagnosis, even remotely.

In addition to the database, intercom and telephone server cores are included, which enable comprehensive functions from both areas and their combinations. The components can be designed redundantly.

TIMM is essentially software and includes various server cores for different basic applications. The server software is installed on the so-called ComServer and communicates either directly with standard IP terminals or systems and via gateways with special and non-IP systems.

For further information about the complete system TIMM, please contact us directly. The performance and function overview is too immense to be listed here in detail. Therefore, we only show the system as an example.

The TIMM ComServer is an industrial computer, which is available in three different hardware variants according to its application. All variants provide the same performance in terms of software.

TIMM ComServer



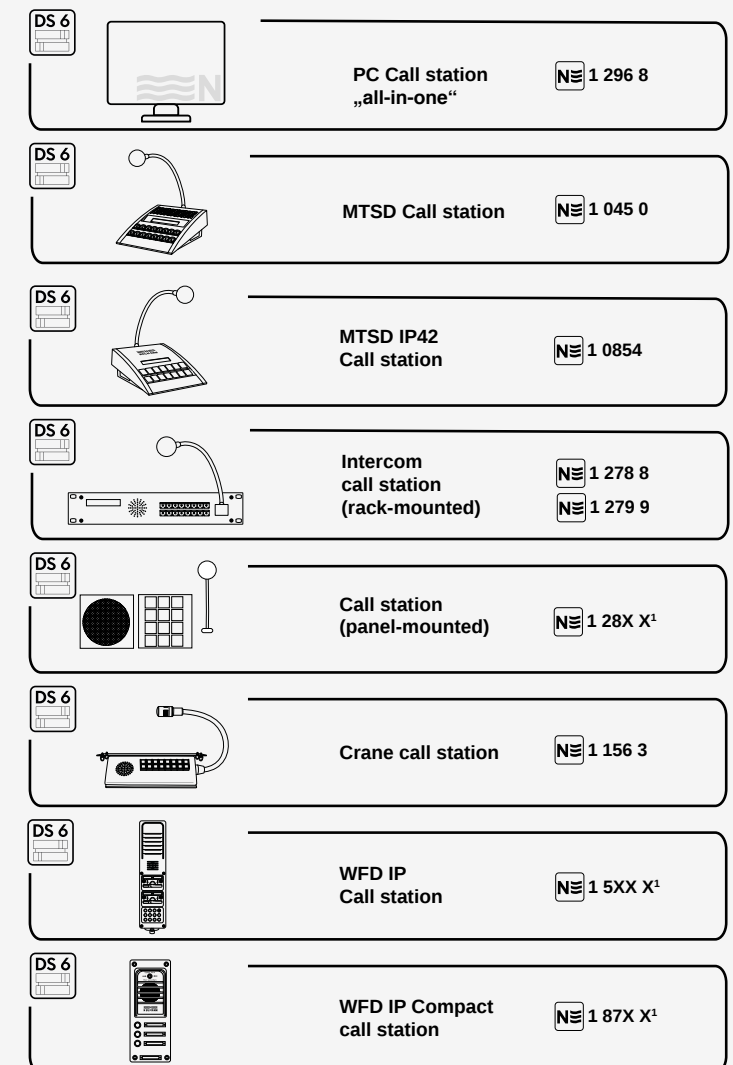
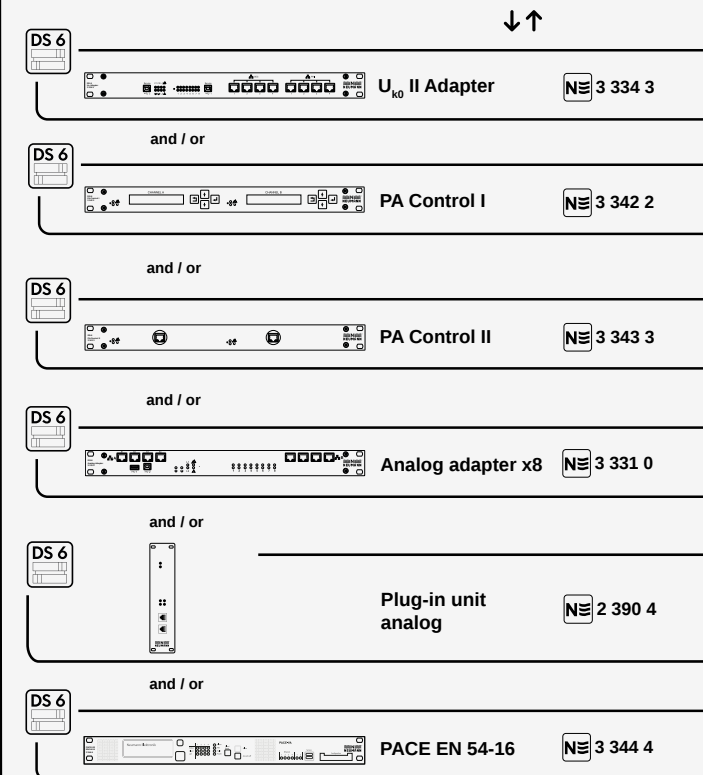
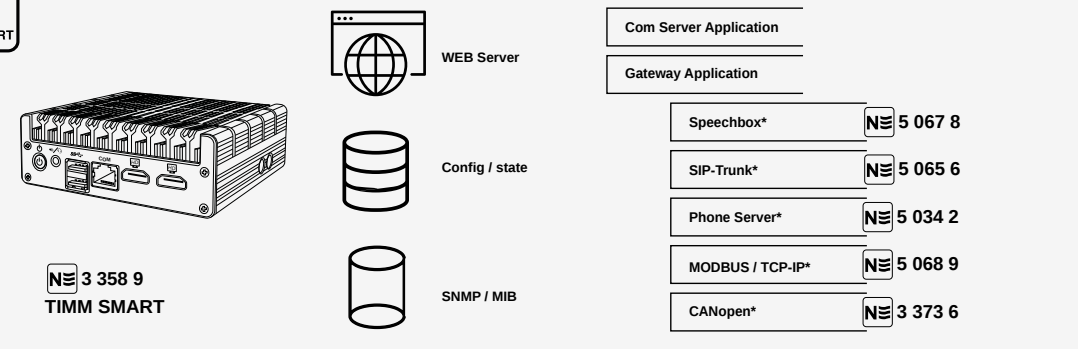
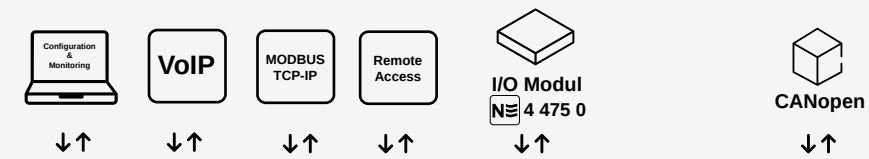
TIMM ComServer SMART

The TIMM communication system SMART contains various server cores for different basic applications. These include public address, intercom, telephony and control.

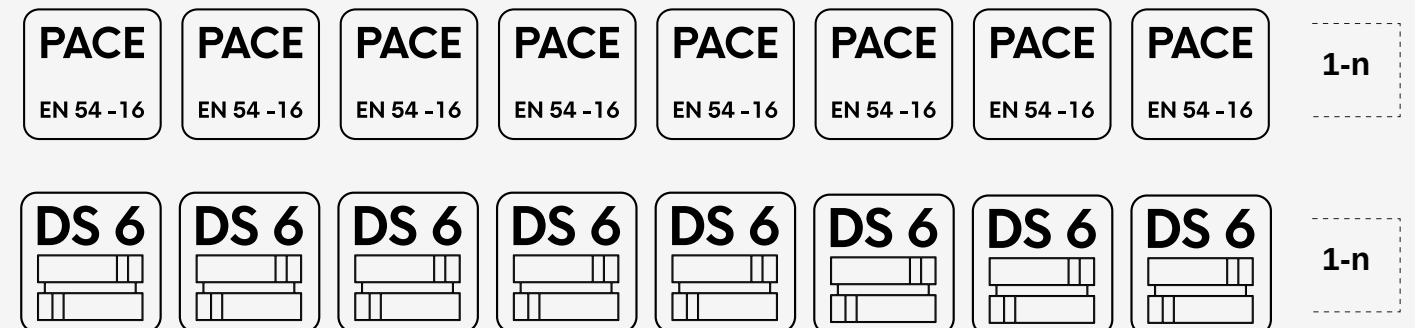
The TIMM intercom software for public address and intercom functions is installed as standard on every TIMM ComServer SMART. Additional software packages are installed as needed.

The TIMM ComServer SMART is designed for smaller systems with up to 50 participants.

The TIMM ComServer SMART is an industrial computer that is particularly suitable for 24/7 continuous operation in alarm and evacuation systems with high security requirements. The TIMM ComServer SMART is designed as a compact module for horizontal or vertical rail mounting.



¹⁾ : various models; product numbers depending on individual requirements.



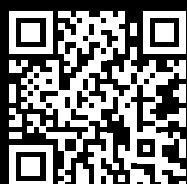
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Technical data and product information may vary or be changed without prior notice.

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