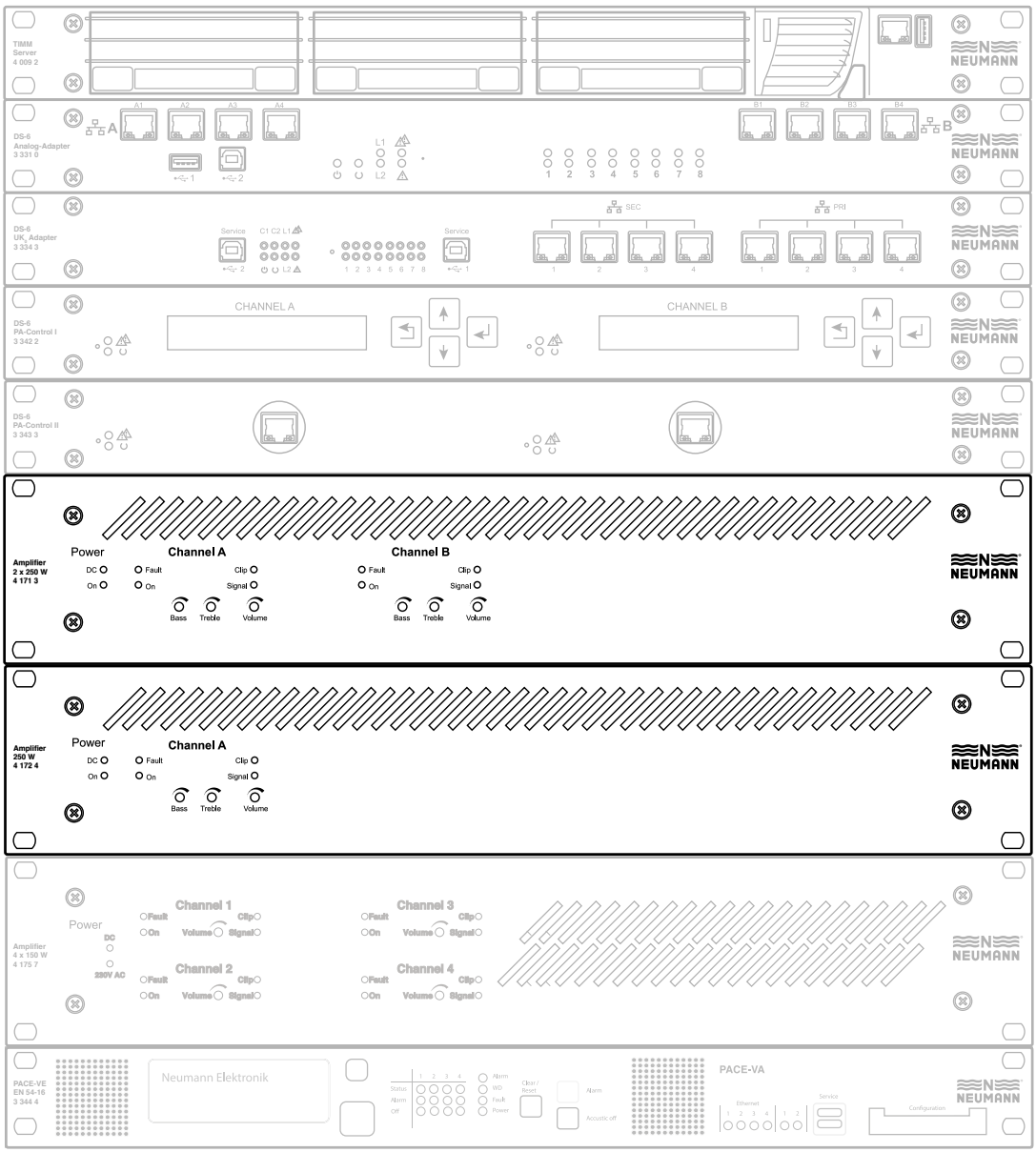
Amplifier 250/300 W & 2 x 250/300 W
Class D technology



4 172 4
4 171 3

Ver. 10.10.20 16:00

Established Neumann Elektronik quality

Class D technology

High efficiency

Low heat generation

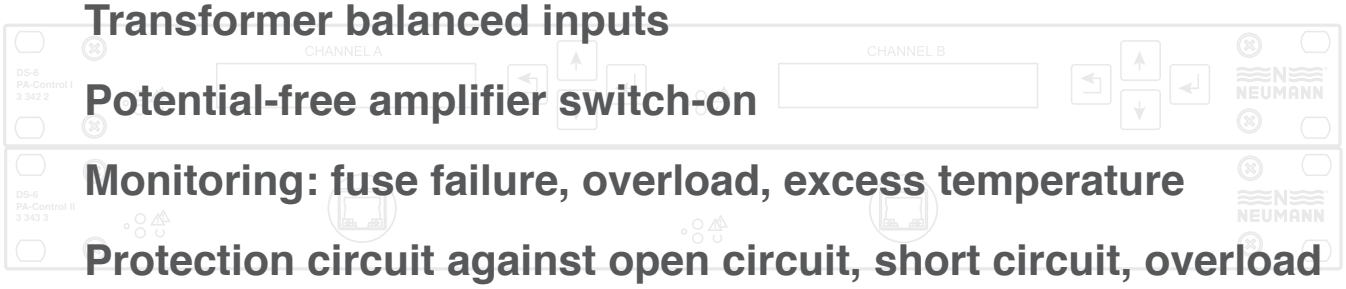
No active ventilation required

Low installation depth

Control LEDs for all signal and operating states on the front panel: power ON, DC, signal OK, clipping, fault

Volume, treble and bass control accessible from the front (adjustable with screwdriver)

Transformer balanced inputs



Potential-free amplifier switch-on

Monitoring: fuse failure, overload, excess temperature

Protection circuit against open circuit, short circuit, overload

230V / 115V AC input voltage (switchable)

48V / 60V DC input voltage / emergency power supply

Amplifier is open circuit and short circuit proof

100V and 50V output, earth-free

High quality toroidal output and mains transformers

All supply lines plugged in, with detachable bolt-on gates

NEUMANN

The 1-channel and 2-channel output stages are designed for permanent installation in ELA systems (DS-6, MDK, MF etc.) from Neumann Elektronik.

The amplifiers are designed in Class D technology.
This circuit concept guarantees high efficiency and has low heat generation.

The amplifiers generate a nominal output power of 1 x 250 / 300 W or 2 x 250 / 300 W at an operating voltage of 230 / 115 V AC or 48...60 V DC.

Configuration

4 172 4	250/300 W, 1-channel
4 171 3	2 x 250/300 W, 2-channel

Mechanical data

Dimensions	19“, 2HE, 270mm deep
Weight	
4 172 4	approx. 11,5 kg
4 171 3	approx. 15 kg

Electrical data 4 172 4 1 channel

Operational voltage	48…68 V DC 230 V/115 V AC
Max. power consumption	6 A (bei 48…68 V DC) 1,4 A (230 V/115 V AC)
Supply voltage	2 x 43V DC… 72V DC
Output power according to IEC 268.3/19.3	300 W bei Netzbetrieb
Output power according to IEC 268.3/19.4	250 W bei Netzbetrieb
Input voltage	320 mV
Frequency range	80 Hz bis 12 kHz ± 1db

Electrical data 4 171 3 2 channels

Operational voltage	48…68 V DC 230 V/115 V AC
Max. power consumption	12 A (both channels) (at 48…68 V DC) 2,8 A (both channels) (at 230 V/115 V AC)
Supply voltage	2 x 43V DC… 72V DC
Output power according to IEC 268.3/19.3	2 x 300 W bei Netzbetrieb
Output power according to IEC 268.3/19.4	2 x 250 W bei Netzbetrieb
Input voltage	320 mV
Frequency range	80 Hz bis 12 kHz ± 1db

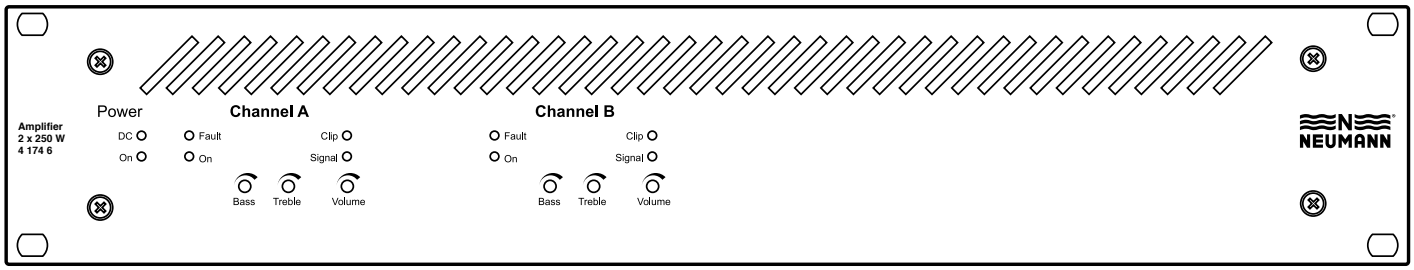
Environmental conditions

Permitted temperature range	+5 ... +40°C

NEUMANN

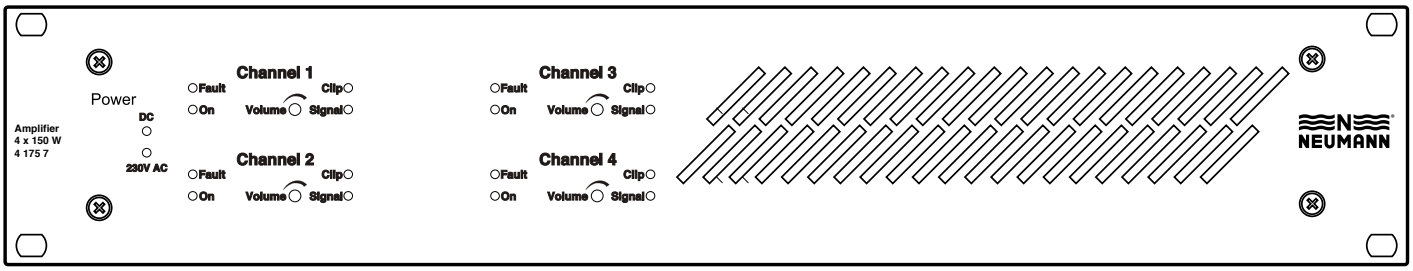
Other amplifiers
with established Neumann quality

4 174 6 Amplifier 2 x 250 Watt



The amplifier is identical in construction to the amplifier 4 171 3. The settings are defined in the factory and cannot be changed by customers on site. Some special functions can be optionally installed. Please contact us to find out more.

4 175 7 Amplifier 4 x 150 Watt
Amplifier 2 x 300 Watt



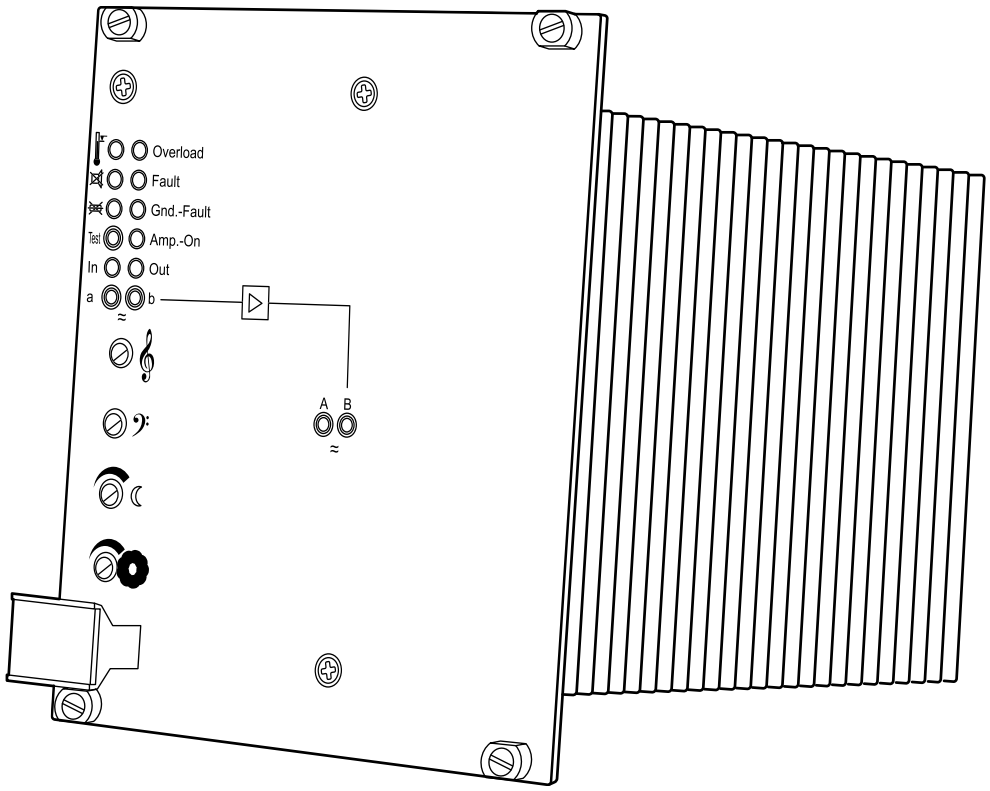
The 4-channel power amplifier with 150W output each is designed for permanent installation in ELA systems and is intended for connecting loudspeakers in 100V technology.

By external wiring the amplifier can be switched to 2-channel operation with 300W each. Each power amplifier is designed in Class D technology. This circuit concept guarantees a high efficiency and has a low heat development and a low standby consumption.

The amplifiers generate a nominal output power of 4 x 150 W or 2 x 300 W with a power supply of AC 230 V and/or DC 48 V for redundant operation.

Other amplifiers
with established Neumann quality

4 150 0 Amplifier 25 / 50 W
4 160 1 Amplifier 100 W



The 25 / 50 W amplifier as well as the 100 W amplifier are designed in 100 Volt technology. The very compact amplifiers are used to amplify the power of Neumann Elektronik ELA, DS-6 and MDK systems, and also offer the possibility of connection to all voice communication centres with analogue interfaces.

Thanks to various operating voltages, flexible use is possible. A special area of application is the public address and alarm system for small areas and fire compartments in office buildings, warehouses and industrial areas, production environments, building yards and factory yards.

4 172 4
4 171 3

Other amplifiers
with established Neumann quality

1 570 3 Additional amplifier 25 W for outdoor call stations

When used in conjunction with an additional amplifier and loudspeaker, the supplementary loudspeaker can assume the function of a call loudspeaker. Only the first call is transmitted to the station from the additional loudspeaker. Calls after an intercom answer are then automatically transmitted only via the intercom loudspeaker. After a pause of approx. 20 seconds, this function returns to its original state. The amplifier has a 100V output ungrounded.

1 841 4 WL - 1 W Universal amplifier

This WL amplifier is used in call stations from Neumann Elektronik.
It contains separate amplifiers for the operation of a microphone and a loudspeaker, and the necessary control electronics for automatic activation and calling up special functions.

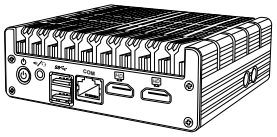
It is designed as a plug-in module consisting of a printed circuit board with a plug connector. The components were mainly used in SMT design for production on automatic placement machines. Four large controllers for individual level adjustment of the microphone and loudspeaker amplifier are located on the front side of the printed circuit board.
WL - 1 W universal amplifier can also be supplemented with the 25 W additional amplifier (No.: 1 570 3).

NEUMANN

TIMM | TIMM SMART | DS 6 | PACE EN 54-16

Configuration & Monitoring | VoIP | MODBUS TCP-IP | Remote Access | I/O Modul NE 4 475 0 | CANopen

TIMM SMART



NE 3 358 9
TIMM SMART

WEB Server

Config / state

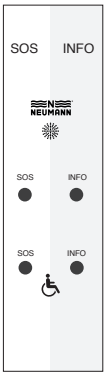
SNMP / MIB

Com Server Application

Gateway Application

Speechbox*	NE 5 067 8
SIP-Trunk*	NE 5 065 6
Phone Server*	NE 5 034 2
MODBUS / TCP-IP*	NE 5 068 9
CANopen*	NE 3 373 6

NIS



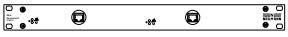
DS 6

UK$_0$ II Adapter — NE 3 334 3

and / or

PA Control I — NE 3 343 3

and / or



PA Control II — NE 3 343 3

and / or

Analog adapter x8 — NE 3 331 0

and / or

Plug-in unit analog — NE 2 390 4

and / or

PACE EN 54-16 — NE 3 331 0

DS 6

PC Call station „all-in-one“ — NE 1 296 8

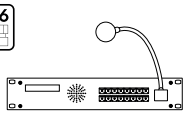
DS 6

MTSD Call station — NE 1 045 0

DS 6

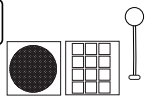
MTSD IP42 Call station — NE 1 0854

DS 6



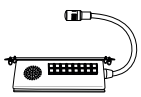
Intercom call station (rack-mounted) — NE 1 278 8, NE 1 279 9

DS 6



Call station (panel-mounted) — NE 1 28X X[1]

DS 6



Crane call station — NE 1 156 3

DS 6

WFD IP Call station — NE 1 5XX X[1]

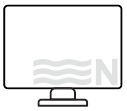
DS 6

WFD IP Compact call station — NE 1 87X X[1]

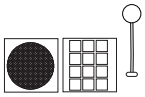
[1]: various models; product numbers depending on individual requirements.

TIMM | TIMM SMART | DS 6 | PACE EN 54 -16

I/O Modul
NΞ 4 475 0

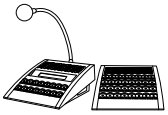


PC Call station
„all-in-one“
NΞ 1 296 8

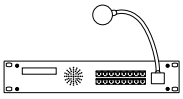


Built-in call station
(panel assemblies)
NΞ 1 29X X[1]

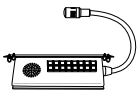
MTSD IP42
Call station
NΞ 1 085 4



MTSD
Call station
NΞ 1 045 0



Rack mounting station
19 Zoll
NΞ 1 27X X[1]



Crane call station
NΞ 1 156 3

WFD IP
Weatherproof
compact call station
NΞ 1 87X X[1]

WFD IP Weatherproof
intercom station
NΞ 1 59X X[1]
NΞ 1 681 6

DS 6

PA Control II
NΞ 3 343 3

PA Control II
NΞ 3 343 3

Amplifier
NΞ 4 1XX X[1]

Amplifier
NΞ 4 1XX X[1]

LK1 - LK6

LK1 - LK6

LK1 - LK4

Amplifier4 x 150W
NΞ 4 175 7

Third-Party
Hardware

Amplifier
50Watt
NΞ 4 150 0

Amplifier
100 Watt
NΞ 4 160 1

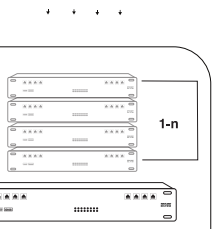
LK1 - LK4[2)]

LK1 - LK4[2)]

Diffuse emitter
NΞ 4 805 7

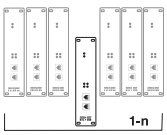
Diffuse emitter
NΞ 4 805 7

UHF (Ultra High Frequency)



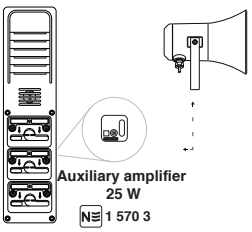
Analogue adapter x8
NΞ 3 331 0

or



Plug-in unit
NΞ 2 390 4

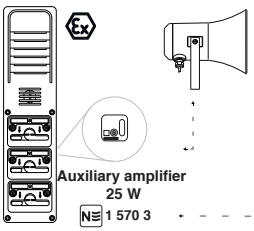
WFAK Analogue
call station compact
WFAK Additional housing
NΞ 1 9XX X[1]



Auxiliary amplifier
25 W
NΞ 1 570 3

WFA
Weatherproof call station
NΞ 1 5XX X[1]

MTSA
Call station
NΞ 1 75X X[1]



Auxiliary amplifier
25 W
NΞ 1 570 3

WFA
Weatherproof call station
NΞ 1 5XX X[1]

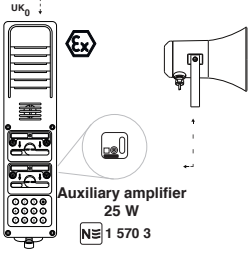
WL 1 Watt
Universal amplifier
NΞ 1 841 4

UK$_0$ II Adapter 8x
NΞ 3 334 3

UK$_0$

MTSD
UK$_0$ Call Station
NΞ 1 84X X[1]

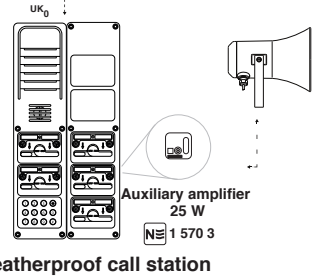
UK$_0$



Auxiliary amplifier
25 W
NΞ 1 570 3

WFD-Ex
Explosion-proof call
station UK$_0$
NΞ 1 5XX X[1]

UK$_0$



Auxiliary amplifier
25 W
NΞ 1 570 3

WFD Weatherproof call station
with additional housing UK$_0$
NΞ 1 59X X[1]
NΞ 1 6XX X[1]

1) different models;
product numbers according
to individual requirements

2) optional

Neumann Elektronik GmbH

Lahnstrasse 31-33
45478 Mülheim an der Ruhr
Germany

info@neumann-elektronik.com
www.neumann-elektronik.com

4 172 4
4 171 3

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