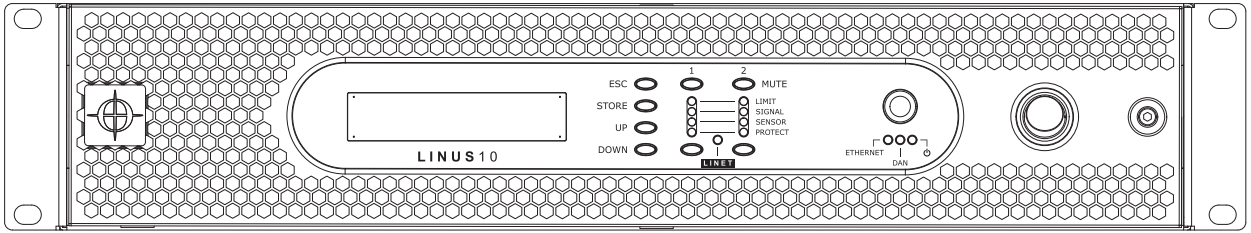


INFORMATION FOR USE FOR MODELS
CODA AUDIO LINUS10

The leading version of this brochure is the English one which shall prevail to the exclusion of the national translation on hand.

Boulevard der EU 6, 30539 Hannover, Germany

Telephone +49 (0) 511 86655888

CODA AUDIO
LINUS 10

Please visit our website www.codaaudio.com for the latest version of this user manual. Please note that the leading version of CODA AUDIO manuals is always the English one.

IMPORTANT SAFETY INSTRUCTIONS

1. General
The amplifier may only be used in accordance with the information provided in the user manual. Before and during the usage of the amplifier please ensure that all recommendations, especially the safety recommendations as detailed in the user manual, are adhered to.

The **CODA AUDIO LINUS10** amplifier is designed for the amplification of pulsed audio signals. The amplifier should only be connected to speakers with an average impedance as indicated.

2. User Manual
Read the information for use (user manual) and heed all warnings. Keep this user manual in a safe place during the lifetime of the amplifier. The user manual forms an integral part of the amplifier. Reselling the amplifier is only possible if the user manual is available. In case of reselling the amplifier, the reseller has to document any changes made to the amplifier in writing and pass the documentation on to the buyer.

3. Environments
Use this amplifier only in E1, E2, E3, E4 or E5 environments according to EN55103-2 “Electromagnetic compatibility – Product family standard for audio, video, and audio-visual and entertainment lighting control apparatus for professional use – Part 2: Immunity”.

4. Mounting/Placement
Do not place this amplifier on an unstable cart, stand, tripod, bracket, or table. The amplifier may fall causing serious injury and serious damage to the product. Any mounting of the amplifier should follow the manufacturer´s instructions. Only mounting accessory shall be used which is recommended by the manufacturer.

5. Mains Connectiont
The amplifier may only be connected to a socket with a protective earth connector.

6. Power Cord Protection
Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon them or against them, paying particular attention to cords and plugs and the point where they exit from the amplifier.

7. Heat
Do not use this amplifier near any heat sources such as radiators, heat registers, stoves, or other apparatuses that produce heat.

8. Water and Moisture
Do not expose this device to rain or moisture. Do not use this amplifier near water (for example swimming pools and fountains). Do not place any objects containing liquids, such as bottles or glasses, on the top of the unit. Do not splash liquids on the unit. IP-20 equipment. There is no protection against splashing water.

9. Ventilation
Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the amplifier and to protect it from overheating. These openings must not be blocked or covered. This amplifier should not be installed unless proper ventilation is provided or manufacturer’s instructions have been adhered to.

10. Interference Of External Objects and/or Liquids with the Appliance
Never push objects of any kind into this amplifier through openings as they may touch dangerous voltage points or short-out parts that could result in fire or electric shock. Never spill liquid of any kind on the amplifier.

11. Connections
When you connect the amplifier to other equipment, turn off the power and unplug all of the equipment from the supply source. Failure to do so may cause an electric shock and serious personal injury. Read the user manual of the other equipment carefully and follow the instructions when making the connections.

12. Lightning
For additional protection of this amplifier during lightning storms or when it is left unattended and/or unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the amplifier due to lightning and power line surges. Disconnection from the mains power supply can only be achieved by removing the plug from the mains socket and by external disconnecting all poles from the mains.

13. Damages that Require Service
Unplug this amplifier from the mains supply and refer to your dealer/distributor or other authorized repair workshop if any of the following situations occur:

- if liquid has been spilled or objects have fallen into the amplifier
- if the amplifier has been exposed to rain or moisture
- if the amplifier has been dropped or damaged in any other way
- if the power supply cord or plug has been damaged
- when the amplifier exhibits a distinct change from its normal function or performance
- in case the amplifier has been used in a dusty environment for quite a period of time

14. Servicing
All service and repair work must be carried out by a dealer/distributor authorized by **CODA AUDIO**. Do not attempt to service this amplifier yourself. As opening or removing covers may expose you to dangerous voltage or other hazards, the amplifier may only be opened by qualified personnel. Please refer to your dealer/distributor.

15. Spare Parts
When spare parts are required, please ensure that the dealer/distributor only uses spare parts specified by the manufacturer. The use of unauthorized spare parts may result in injury and/or damage through fire or electric shock or other electricity-related hazards.

16. Safety Check
Upon completion of any service or repairs to this product, ask the dealer/distributor to perform safety checks to determine that the amplifier works properly.
Recommendations on how to carry out the safety test can be found in DIN VDE 0701-1 “Maintenance, Modification and Test of Electronic Appli - ances“.

17. Cleaning
Unplug this amplifier from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Clean only with dry cloth.

18. Packaging and Shipping
When shipping the CODA AUDIO LINUS10 amplifier, always use the original shipping carton and packing materials. For maximum protection repack the unit as it was originally packed at the factory.

19. Altitude (for China)
The amplifier shall be operated at altitudes below or equal 2000 m.

EXPLANATION OF SYMBOLS

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION – HIGH VOLTAGE HAZARDS EXIST WITHIN THIS PRODUCT. REFER ALL SERVICING TO AUTHORIZED PERSONNEL.

THE LIGHTNING FLASH WITH ARROW HEAD SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED DANGEROUS VOLTAGE WITHIN THE PRODUCT'S ENCLOSURE.

THE EXCLAMATION MARK IS INTENDED TO ALERT THE USER TO IMPORTANT INSTRUCTIONS ALSO FOR MAINTENANCE IN THE LITERATURE ACCOMPANYING THE AMPLIFIER.

THE LIGHTNING FLASH WITH ARROW HEAD SYMBOL ALERTS THE USER TO DANGEROUSLY HIGH VOLTAGE AT THE OUTPUT CONNECTORS! THAT COULD POTENTIALLY BE LIFE THREATENING.

WARNING – TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS AMPLIFIER TO RAIN OR MOISTURE.

CAUTION – RISK OF ELECTRIC SHOCK – DO NOT OPEN.

THE AMPLIFIER SHALL ONLY BE OPERATED AT ALTITUDES BELOW OR EQUAL 2000 M.

THE AMPLIFIER MAY ONLY BE CONNECTED TO A SOCKET WITH A PROTECTIVE EARTH CONDUCTOR.

EC DECLARATION OF CONFORMITY

EC Declaration Of Conformity In Accordance To EC Directives:
Electromagnetic compatibility (Council Directive 2014/30/EC,);
Low-voltage electrical equipment (Council Directive 2014/35/EC)

CE

Manufacturer´s Name:
Coda Audio GmbH

Manufacturer´s Address:
Boulevard der EU 6, 30539 Hannover, Germany

Declares That The Product With The Model Name:
LINUS10

Conforms to the following standards:

- IEC/EN/UL/CSA 60065 Safety
- EN55103-1 Emission (for all environments E1/residential to E5/industrial)
- EN55103-2 Immunity (for all environments E1/residential to E5/industrial)

The operating conditions and application environments presupposed in the information for use (user manual) are to be kept accordingly.

Hannover, 02.02.2015

Svetlomir Alexandrov

Consignes de Sécurité Importantes

1. Général

L'amplifcateur ne doit être utilisé qu'en conformité avec les informations indiquées dans le mode d'emploi. Avant et pendant l'utilisation de l'amplifcateur, s'assurer que toutes les consignes, surtout les consignes de sécurité décrites dans le mode d'emploi, sont respectées.

L'amplifcateur **LINUS10** a été construit pour l'amplifcation de signaux audio pulsés et ne doit être branché qu'à des enceintes ayant une impédance moy enne de celle indiquée.

2. Mode d'Emploi

Conserver ce mode d'emploi dans un endroit sûr durant toute la vie utile de l'amplifcateur. Ce mode d'emploi fait partie intégrante de cet amplifcateur. La revente de l'amplifcateur n'est possible qu'avec le mode d'emploi. Tout changement subi par l'amplifcateur doit être documenté par écrit et transmis à l'acheteur dans le cas d'une revente.

3. Environnement

N'utiliser cet amplifcateur que dans les environnements classés E1, E2, E3, E4 ou E5 selon EN55103-2 „Compatibilité électromagnétique – Norme de famille de produits pour les appareils à usage professionnel audio, vidéo, audiovisuels et de commande de lumière pour spectacles - Partie 2: immunité".

4. Instruction de montaget

Ne pas placer cet amplifcateur sur un chariot, un stand, un trépied, un support ou une table instable. Le produit pourrait chuter, s'endommager serieusement, et prevo quer de graves blessures.
Pour l'installation de l'amplifcateur, observer les instruc tions du fabricant et utiliser les accessoires recommandés par le fabricant.

5. Connection Secteur

Ne brancher cet amplifcateur uniquement a une prise reliée a la terre.

6. Protection du cordon d'alimentation

Les câbles électriques sont à disposer de manière à ne pas être piétinés ou coincés par des objets placés dessus ou contre les câbles, tout en faisant attention aux câbles et aux fches et particulièrement au point de sortie de l'amplifcateur. Le dispositiv de déconnexion du secteur (le câble et connecteur sécteur ou le disjoncteur thermique) doivent être accessibles a tout instant.

7. Chaleur

Ne pas brancher près de sources de chaleur comme les radiateurs, les corps de chauffe, les fourneaux ou d'autres dispositifs qui produisent de la chaleur.

8. Eau et humidité

Ne pas exposer le produit à la pluie ou à l'humidite, ne pas utiliser le produit à proximité d'eau et ne pas utiliser le produit s'il est mouillé (p.ex. dans des pièces humides ou près d'une piscine). Ne placez jamais des objets contenant des liquides sur le produit (comme par exemple des bouteilles ou des verres). Il s'agit d'un produit IP20 sans protection contre éclaboussure.

9. Ventilation

Les fentes et les ouvertures dans la boîte servent à la ventilation et assurent un bon fonctionnement de l'amplifcateur, tout en le protégeant de la surchauffe. Ces ouvertures ne doivent être ni bloquées ni couvertes. Le produit peut être installé uniquement dans un endroit convenablement ventilé, selon les recom mandations du fabricant données dans ce manuel.

10. Interférence d'objets externes et/ou liquides avec l'amplifcateur

Ne jamais introduire d'objets quelconques dans l'amplifcateur à travers les ouvertures car ils peuvent être en contact avec des points de tension dangere use ou causer un court-circuit de composants provoquant ainsi un feu ou un choc électrique. Ne jamais renverser de liquide sur l'amplifcateur.

11. Branchment

Pour brancher l'amplifcateur à d'autres dispositifs, éteindre le courant et débrancher tous les composants du réseau. Autrement, il y a un risque de choc électrique et de lésions sérieuses. Lire attentivement le mode d'emploi des autres dispositifs et suivre les instructions en branchant.

12. Foudre

Pour une protection renforcée de cet amplifcateur, le débrancher de la prise secteur pendant les orages ou quand il est sans surveillance et hors utilisation pendant un temps prolongé. Ainsi, vous évitez un endommagement de l'amplifcateur dû aux coups de foudre et des surtensions. Le débranchement du réseau n'est possible qu'en retirant la prise secteur ou en débranchant tous les contacts du réseau.

13. Dommages nécessitant une intervention

Dans les cas suivants, débranchez l'amplifcateur du réseau et contactez votre concessionnaire/distributeur ou un atelier autorisé:

- du liquide a été renversé ou des objets sont tombés dans l'amplifcateur
- l'amplifcateur a été exposé a la pluie ou a l'humidité
- si l'amplifcateur est tombé ou a été abîmé
- le cordon d'alimentation ou la fche électrique est endommagé
- l'amplifcateur ne marche pas de manière normale comme décrit dans le mode d'emploi

14. Entretien

Toute opération de maintenance ou réparation doit être effectuée par un concessionnaire autorisé **Coda Audio.** Ne pas essayer d'entretenir l'amplifcateur vous-même. L'ouverture ou l'enlèvement de couvercle pourrait vous exposer à une tension dangereuse ou à d'autres risques, l'amplifcateur ne doit être ouvert que par du personnel qualifé. Veuillez contacter votre concessionnaire/distributeur.

15. Réparation et pièces de rechange

S'il faut des pièces de rechange, s'assurer que le concessionnaire/distributeur n'utilise que les pièces de rechange spécifées par le constructeur. L'emploi de pièces de rechange non autorisées peut causer des lésions et/ou des endommagements par feu, choc électrique, ou d'autres dangers d'origine électrique.

16. Contrôle de sécurité

Après entretien ou réparation de ce produit, demander au concessionnaire/distributeur de faire des contrôles de sécurité pour déterminer si l'amplifcateur est en bon état de marche.
Des conseils pour les contrôles de sécurité se trouvent dans la norme DIN VDE 0701-1 „Entretien, modifcations et test des appareils électriques".

17. Nettoyage

Débrancher l'amplifcateur de la prise secteur avant de le nettoyer. Ne pas utiliser des produits liquides ou vaporisés.

18. Emballage et expédition

Pour expédier l'amplifcateur **LINUS10** veuillez toujours utiliser le carton et l'emballage d'origine. Pour une protection maximale, toujours emballer l'unité comme elle l'a été à sa sortie d'usine.

19. Altitude (pour la Chine)

L'amplifcateur ne doit pas être utilisé a des altitudes dépassant 2000 m.

EXPLICATION DES SYMBOLES

ATTENTION
RISQUE DE CHOC ÉLECTRIQUE
NE PAS OUVRIR

ATTENTION – CE PRODUIT PRÉSENTE DES RISQUES ASSOCIÉS AU COURANT ÉLEVE. TOUT SERVICE DOIT ÊTRE EFFECTUE PAR DU PERSONNEL AUTORISÉ.

L'ÉCLAIR AVEC LE SYMBOLE DE LA FLÉCHE SERT A AVERTIR L'UTILISATEUR DE LA PRÉSENCE D'UNE TENSION NON ISOLÉE A L'INTÉRIEUR DE LA CAISSE.

LE POINT D'EXCLAMATION SERT ÉGALEMENT A AVERTIR L'UTILISATEUR D'INSTRUCTIONS IMPORTANTES POUR L'ENTRETIEN CONTENUES DANS LA DOCUMENTATION DE L'AMPLIFICATEUR.

L'ÉCLAIR AVEC LE SYMBOLE DE LA FLÉCHE INDIQUE A L'UTILISATEUR LA PRÉSENCE DE COURANT ÉLEVÉ AUX CONNECTEURS SPEAKON QUI POURRAIENT PRÉSENTER UN DANGER DE MORT.

AVERTISSEMENT – POUR ÉVITER DU FEU OU DES CHOCS ÉLECTRIQUES, NE PAS EXPOSER CET AMPLIFICATEUR A LA PLUIE OU A L'HUMIDITÉ.

ATTENTION – RISQUE DE CHOC ÉLECTRIQUE – NE PAS OUVRIR.

L'AMPLIFICATEUR NE DOIT PAS ÊTRE UTILISÉ A DES ALTITUDES DÉPASSANT 2000 m.

NE BRANCHER CET AMPLIFICATEUR UNIQUEMENT A UNE PRISE RELIÉE A LA TERRE.

Déclaration de conformité CE

Déclaration de conformité CE selon les directives CE:
Compatibilité électromagnétique (Directive 2014/30/CE Conseil Européen)
Basse tension (Directive 2014/35/EC du Conseil Européen)

Nom du constructeur:
Coda Audio GmbH

Adresse du constructeur:
Boulevard der EU 6, 30539 Hannover, Germany

Déclare que le produit avec le nom de modèle:
Amplifcateur **LINUS10**

Est en conformité avec les normes suivantes:

- IEC/EN/UL/CSA 60065 Sécurité
- EN55103-1 Émission
  (pour tous les environnements E1 / résidentiel à E5 / industriel)
- EN55103-2 Immunité
  (pour tous les environnements E1 / résidentiel à E5 / industriel)

Les conditions de service et les environnements spécifés dans le mode d'emploi sont à respecter.

Hannover, 02.02.2015

Svetlomir Alexandrov

CONTENTS

1 Welcome to CODA AUDIO

Coda Audio – designer and manufacturer of highest quality speaker systems

Coda Audio is a leading designer and manufacturer of high quality pro-audio loudspeaker systems.

Core to our products are a number of unique patented driver technology designs which provide outstanding dynamic results as well as improved precision and reliability over conventional components.

To ensure the highest quality and control over our products we have our own manufacturing facility in Europe which produces all of the driver and cabinet components. Further benefits to this approach include substantial reductions in cost and quicker times to market for new products.

We have a wide product range offering high quality solutions to satisfy the most discerning and complex professional sound reinforcement applications, ranging from portable to installation to touring.

Coda Audio is represented via a global network of experienced and technically qualified international distributors.
We believe that the best way to get to know us better is by listening to our loudspeakers because:

HEARING IS BELIEVING

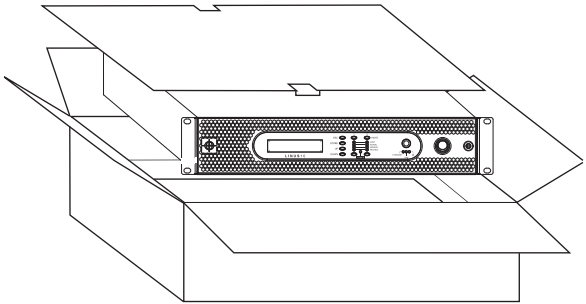
2.1 Unpacking

Please unpack and inspect your new amplifier for any damage that may have occurred during transit. If damage is found, notify the transportation company immediately. Only you as the consignee may initiate a claim for shipping damage. **CODA AUDIO** will be happy to cooperate fully as needed. Please save the shipping carton as evidence of damage for the shipper's inspection.

Even if the amplifier has arrived in perfect condition, save all packing materials for any future transport of the unit.

When shipping the **LINUS10** amplifier, always use the original shipping carton and packing materials. For maximum protection, repack the unit as it was originally packed at the factory.

NOTE: Never ship the amplifier without the original packaging materials.



2.2 The Amplifier

The **LINUS10** amplifiers offer a power output of:

4900 W peak per channel @ 4 Ohm
5300 W peak per channel @ 2 Ohm

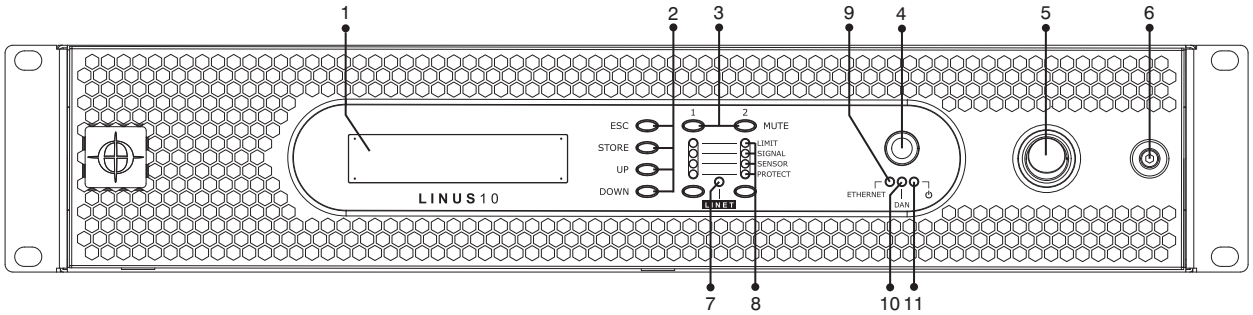
Using a bipolar class H high efficiency power amplifier output stage. For a complete overview of rated power data please refer to chapter 8 Specifications.

The **LINUS10** power amplifier is fitted with Dual Voltage Switched Mode Power Supply (SMPS) with automatic voltage range selection for 120 V / 230 V operation, which significantly reduces the weight and size (only 2U) of the amplifier. Using SMPS, the seamlessly regulated symmetrical supply voltages of the power amplifier are more stable and efficient than the power supplies used in conventional amplifiers.

The **LINUS10** also uses a microprocessor for controlling and monitoring the power amp. This has five main advantages over more traditional power amp systems:

1. Integrated Remote Control
2. Extreme fast and accurate monitoring of all amplifier parameters
3. Fast detection of failures
4. Very fast triggering of protection features

The **LINUS10** has been designed as an intelligent and powerful amplifier for performing specialised tasks within a complex audio system. Users can adapt the power amp to meet their specific audio requirements before use. The display mounted on the front of the**LINUS10** amplifier allow the different functions to be accessed. Since there are a lot of parameters available, it is important that users should familiarize themselves thoroughly with the entire range of settings and programmable features before using the power amp. If you have any questions regarding features and/or functions of your **LINUS10** amplifier, **CODA AUDIO** will be pleased to provide you with further information. Alternatively, contact your dealer or distributor.

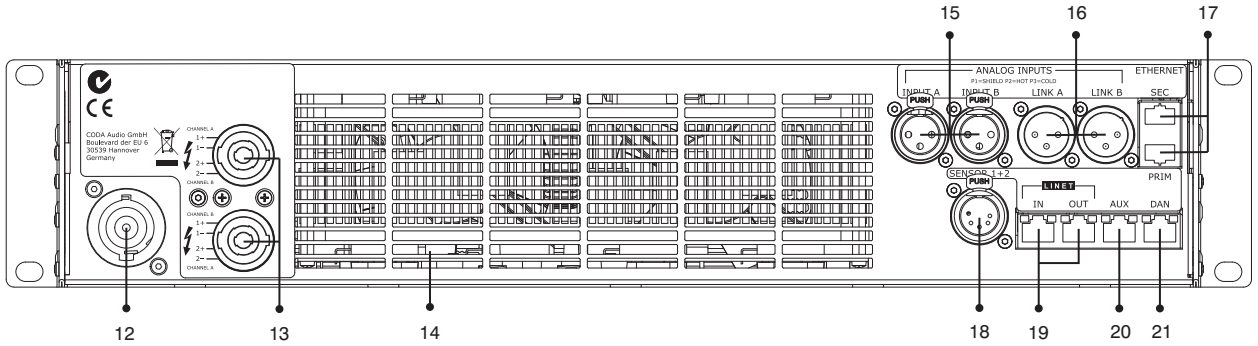


2.3 **LINUS10** – The Front

1 Display
2 Navigational Buttons
3 Channel Mute Buttons
4 Rotary Encoder Knob
5 1/0 Standby Power Switch
6 Knurled Grillscrew
7 LINET-Connection LED
8 LED's
9 Ethernet-Connection LED
10 DAN-Connection LED
11 Mains-Connection LED

2.4 **LINUS10** – The Rear

12 AC Power Connector
13 SPEAKON® Connectors
14 Cooling Air Outlet Vents
15 XLR – Line Inputs
16 XLR – Line Link Outputs (passive loop-through)
17 Ethernet Connector for remote access
18 Sensor Connection
19 LINET Network Connections 1IN / 1OUT (AES/EBU)
20 AUX Connection (alarm override)
21 Digital Audio Network Connection



2.5 Factory settings

LINUS10 amplifiers are delivered with the following factory settings

Power Status	Amplifier is switched Off
Input Selection	Analog
AmpGain	32 dB
Output Mode	Dual Channel
Mute	Both channels inactive (muted)
Level Attenuator	0 dB both channels
Clip Limiter	On
DSP	On
Lock Device	Unlocked
Ethernet Settings	192.168.1.1
Ethernet Mask	255.255.0.0
Ethernet Gateway	192.168.1.1
FuseProtect level	24A (can be switched to 18A)

Change FuseProtect level:

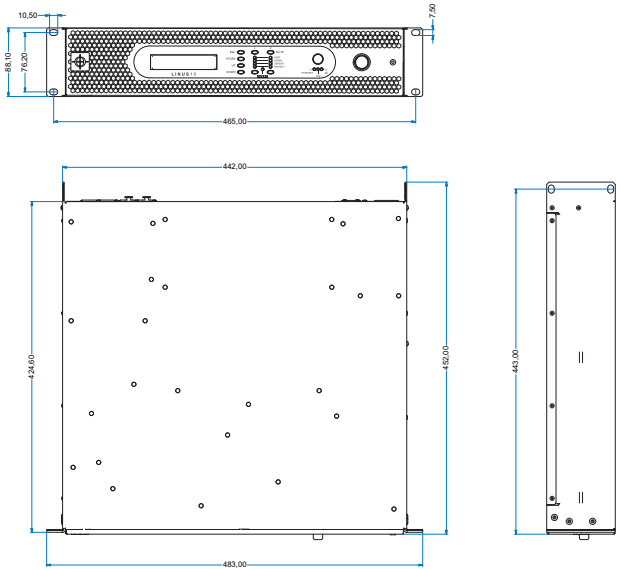
Move to Device Information Page on the display
Press „ESC“ Button for min 2 Seconds, hold it and press aditionally:

UP Button: Strong Fuse (24A)
DOWN Button: Weak Fuse (18A)

Amplifier needs to be rebooted

3.1 Mounting

Use four screws and washers when mounting the amplifier to the front rack rails. For mobile use, the amplifier should also be secured using the 19” mounting elements on the rear panel.



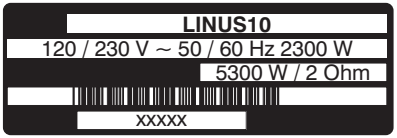
3.2 Cooling

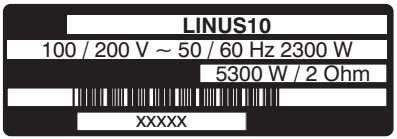
Under normal operation of the power amp, overheating should never be a problem. The air is taken in from the front and out through the back. It is of course essential that, while the power amp is running, the air is able to circulate around it freely. The efficiency of the cooling will depend on both the immediate environment (e.g. an enclosed rack, direct sunlight) and that the front filter is clogged. If the amp is installed in a case, the open area at the back of the case must be at least 140 cm^2. This area should be in line with the amp. If this cannot be achieved, a forced ventilation system has to be used.

3.3. Mains

3.3.1 Mains supply

Only connect the **LINUS10** amplifier to an appropriate AC circuit and outlet in accordance with the requirements indicated in the second line on the rating plate. Only use mains cables with original Neutrik powerCON® 32 A connectors for safety reasons.





For installation mains cable and amplifier protection, we recommend the use of a 16 A mains breaker with C-type tripping characteristic for 230 V operation for *each* **LINUS10** amplifier! (or a 30 – 32 A breaker for 120 V operation respectively)

Please do NOT use much larger mains breakers than recommended here and especially do NOT connect several LINUS10 amplifiers to one single (very large) breaker.

Always respect this rule of thumb for good installation practice for guaranteeing long term reliable, robust and safe operation:

One LINUS10 – One circuit breaker

As soon as the amplifier is connected to mains, the primary capacitors are charged through the inrush current limiter. At the same time the auxiliary power supply is activated, generating a 5 V standby voltage to the main controller and the display. This allows powering up the main SMPS from the switch on the amplifiers front panel.

NOTE: Turning the amplifier off from the user interface (1/0 switch) does not disconnect the amplifier from mains.
Disconnecting the amplifier from the mains can only be achieved by physically removing / disconnecting the mains cable. The mains cable therefore has to be freely accessible at all times.
Attention: Never unplug the powerCON® connector while the amplifier is playing music. Always turn the amplifier off from the display menu (see chapter 4.2) before disconnecting the powerCON® connector.

Alternatively, you can disconnect the amplifier from the mains via an external all-pole disconnection (e.g. a mains breaker).

Disconnect the mains cable during a lightning storm or when the amplifier remains unused or unsupervised for a prolonged period of time.
If a power cut occurs while the amplifier is switched on, it will restart automatically once the mains distribution has been restored. All settings prior to the loss of power will be maintained.

3.3.2 Inrush current limitiation

The **LINUS10** has a special processor dedicated to limit the mains inrush current.

This limiter will take action anytime:
– when connecting the amplifier to the mains through the mains cable
– when switching the amplifier on through an external mains breaker
– the mains voltage was lost for at least 4 half-cycles or more (e.g. a short voltage drop)

This limiter will confine the mains current to a value smaller than 17 A_{rms}*.
*: maximum rms value of inrush current over one half-cycle of the mains voltage according to DIN EN 55103-1.

NOTE: Even under normal conditions the mains current can reach levels up to 32 A / 64 A (230 V / 120 V) and even higher for very short periods of time. This could cause lamps to flicker if connected to the same mains as the amplifier. The impedance of the AC circuit should be less than 0,157 Ω to avoid flicker according to EN61000-3-11 “Electromagnetic compatibility – Part 3-11: Limits – Limitation of voltage changes, voltage fluctuations, and flicker in the public low-voltage supply systems – Equipment with rated current ≤ 75 A and subject to conditional connection”. If in any doubt, consult your local power provider. Never attempt to measure this impedance level with your ohmmeter. This may damage your meter and expose you to the risk of electric shock!

3.3.3 Mains power consuption and current draw

Due to the huge output power of the **LINUS10** the mains current draw can get very high when demanding large output powers. Please refer to following table for an overview of mains currents and power cunsuption under different operating conditions.

Operating condition	Mains current (4 Ω / 2 Ω)	Power consumption (4 Ω / 2 Ω)	Output power
Amplifier standby (power off)	< 0,4 A	8 W	0 W
Idle (amplifier powered on)	1 A	60 W	0 W
300 W per channel	8,4 / 9,2 A	1120 / 1250 W	600 W
600 W per channel / ⅛ th	13,4 / 14,9 A	1930 / 2150 W	1200 W
1200 W per channel* / ¼ th	22,4 / 25,3 A	3360 / 3830 W	2400 W
1600 W per channel* / ⅓ rd	29,4 / 32,3 A	4570 / 4950 W	3200 W

Mains current draw and power consumption @ 230 V, 50 Hz
Measured with pink noise with crest factor of 12 dB to represent typical music signal.
For 120 V mains operation, the current values can be multiplied by 2.
*: duration limited by FuseProtect limiter

Please note that the values given here are typical values only, measured on a standard 230 V / 50 Hz outlet. The actual mains current draw can vary depending on the music signal and the mains characteristics (especially the mains impedance) of any specific installation.

3.4 Signal inputs

The **LINUS10** amplifier offers two different input signal sources:

Analog

In this mode the analog signals connected to the XLR input connectors will be used as input signal.

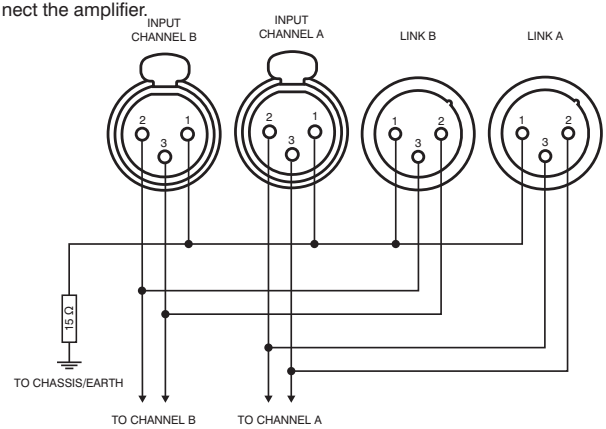
LINET

With the LINET setting the input signals are taken from the LINET Digital Audio Network Interface.

3.4.1 Analog Input

XLR: Pin 1 = Ground (lifted via 15 Ω resistor to chassis / earth)
Pin 2 = Hot (in-phase, "+")
Pin 3 = Cold (out of phase, "- ")

We suggest to always use symmetrically (balanced) shielded cable to connect the amplifier.



The **LINUS10** amplifier has a 32 dB voltage gain.

The table shows input sensitivity per channel for a given gain and load.

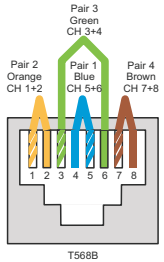
Model	rated output power	32 dB
LINUS10	5300 W @ 2 Ω 4900 W @ 4 Ω 2300 W @ 8 Ω	2,54 V 3,19 V 3,40 V

3.4.2 *LINET* Input / Output

The LINET input and output connectors allow you to receive and send multichannel digital audio streams to other LINET-compatible devices (like other **LINUS10** amplifiers for example). Please note that altough the LINET connectors use the same connector type than standard Ethernet (RJ-45), the physical transmission protocols are different. So any direct connection between the LINET connectors and standard Ethernet connectors will not work.

LINET
Rj45 Pin Wiring

RJ45-Pin	Color	Linet Channel (Polarity)
1	Orange-White	1/2 (+)
2	Orange	1/2 (-)
3	Green-White	3/4 (+)
4	Blue	5/6 (+)
5	Blue-White	5/6 (-)
6	Green	3/4 (-)
7	Brown-White	7/8 (+)
8	Brown	7/8 (-)



3.5 Remote control inputs (Ethernet / *LINET*)

The Ethernet Link network connector allows you to access the **LINUS10** from a host computer for remote control, firmware update and downloading DSP presets. Please note that for setting up proper network connection you need to use the **CODA AUDIO LiNUS-Live** software.

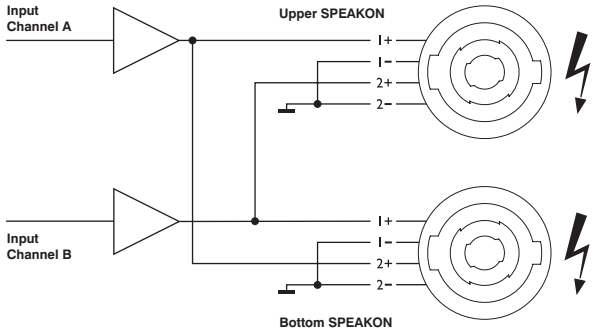
3.6 Power Outputs

3.6.1 SPEAKON® Connection

Both SPEAKON® connectors are connected to the channel A and chan - nel B amplifier outputs. Note that the wiring configuration of the second (bottom) SPEAKON ® connector is inverted (channel A and B outputs swapped).

The pin configuration of the SPEAKON® connectors is as follows:

Upper SPEAKON®:	Pin 1+	Channel A amplifier output
	Pin 1-	Channel A ground
	Pin 2+	Channel B amplifier output
	Pin 2-	Channel B ground
Bottom SPEAKON®:	Pin 1+	Channel B amplifier output
	Pin 1-	Channel B ground
	Pin 2+	Channel A amplifier output
	Pin 2-	Channel A ground



WARNING!
SPEAKON® connectors marked with the lightning flashes indicate high voltages that are potentially life threatening.

Wiring to these terminals requires installation by an instructed person or the use of ready-made leads or cords.

Custom wiring should only be carried out by qualified personnel.

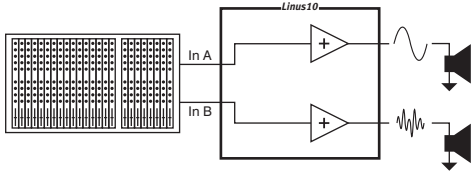
To prevent electric shock, do not operate the amplifier with any of the conductor portion of the speaker wire exposed.

NOTE: For reasons of safety and performance do only use high-quality fully insulated speaker cables of stranded copper wire. Use the largest wire size that is economically and physically practical. Make sure that the cables are not longer than necessary.

IMPORTANT: When connecting speaker cabinets in parallel (especially in Paralell Mono operation mode), always use both SPEAKON® connectors where possible for current sharing. Not doing so may cause permanent damage to the connectors and may considerably reduce performance.

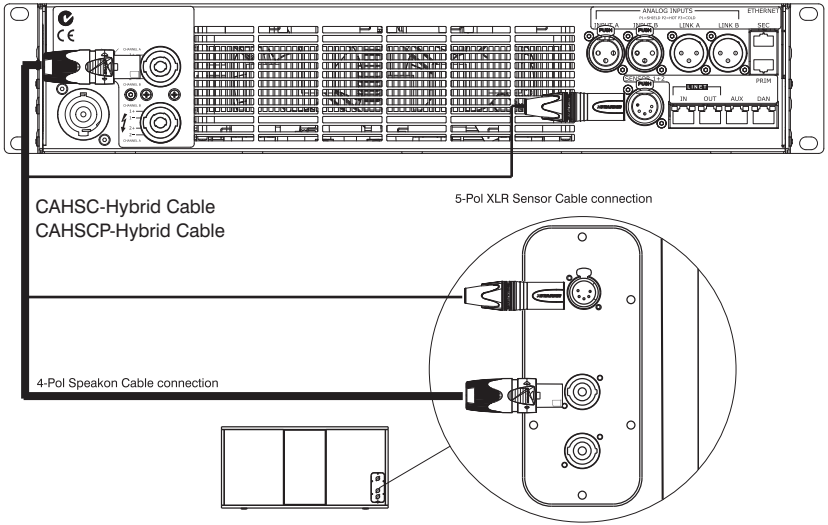
3.6.2 Dual Channel Operation

Two fully independent amplifier channels (aka “Stereo” – normal operating mode).

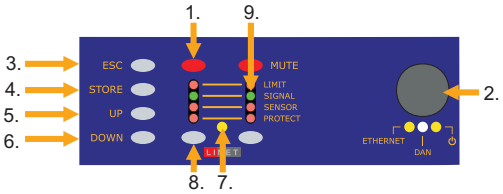


Zmin = 2 Ω for Dual Channel operation

3.6.3 Sensorcable Connections



4.1 Screen User Interface

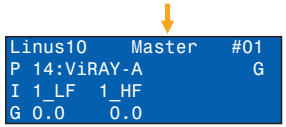


• *Indication:*

1. Channel mute buttons
2. Rotary encoder knob. Selects, changes and enter parameters
3. “ESC“ escape button. Press it any time to deny selection and / or go back to main operation page
4. “Store“ user preset setting under position 1. to 5. (This feature will be added soon.)
5. “Up“ skips operation pages up.
6. “Down“ skips operation pages down.
7. LiNET LED Indicates if digital signal is selected - LED on → Digital audio input
   - LED off → Analog audio input
8. Channel selection buttons
9. Input - or Output signal LED‘s

1. Unit Mode

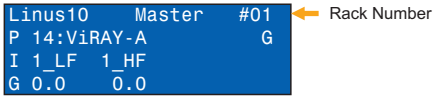
- Move the selection field with the rotary encoder knob to the Unit mode and push to enter selection.



Turn encoder knob to select for the upper LINUS10 Master and the lower Slave, push to confirm.

2. Module Number

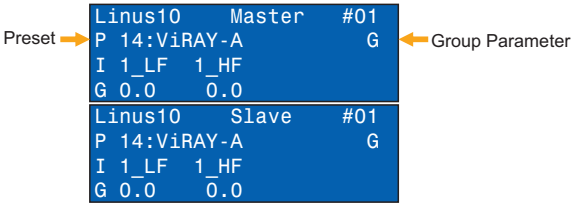
- Use the Master Unit to setup the module number. Slave unit will follow automatically.



Turn encoder knob to select a number from 1 to 99, push to confirm.

3. Preset Select

- Go to position “P” by using the rotary encoder knob on the Master
- Choose Preset and push to enter selection. Slave amplifier will change the preset automatically.

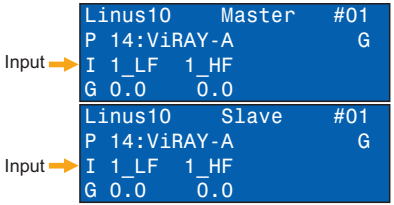


“G” (Group Parameter) needs to be deleted to unlock preset change and tuning option

Attention: *Master + Slave lose group parameter. Any time you change the preset all tuning parameters will be deleted!*

4. Input Signal Routing

- Position “I” – enter selection on the corresponding output channel and push again to confirm.
  - route the signal to the channel
  - select the input signal type (Analogue or Digital)



Important: Signal routing is preset dependant! Example: *ViRAY-P – 4 input channel individual*

LA12 – 1 input channel

*Input Signal Chart:*Analogue Inputs: A, B, C, D LINET (digital) Inputs: 1, 2, 3, 4, 5, 6, 7, 8

Please note: Depending on the Preset structure, Gain, Delay, Tuning needs to be set on Master and Slave units.

5. Input Gain

- Position “G” – Adjust the Gain of the selected channel and push to confirm.

Gain

6. Delay

- Press the “Down” button to skip to second operation page.
- Move selection field to position “D” - Delay

Delay

- Push the encoder knob on the corresponding output channel that you want to delay, choose value and confirm.
- Delay is shown in ms (milliseconds)

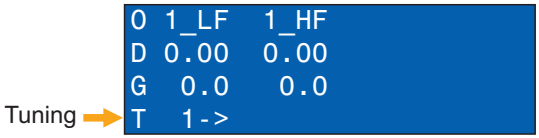
7. Output Gain

- Position “G” – Push encoder of the selected output channel to adjust the gain, push it again to confirm.

Output Gain

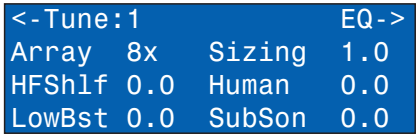
8. Tuning

- Go to position “T” and push the encoder knob to enter Tuning Page.

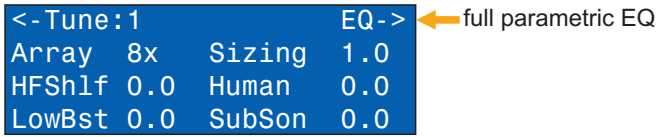


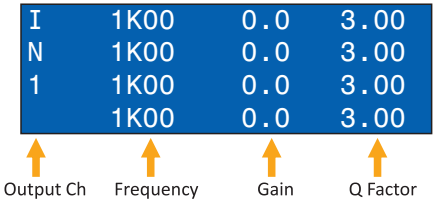
Tuning Page

- Array
- High Shelf
- Low Boost
- Sizing
- Human EQ
- Sub Sonic



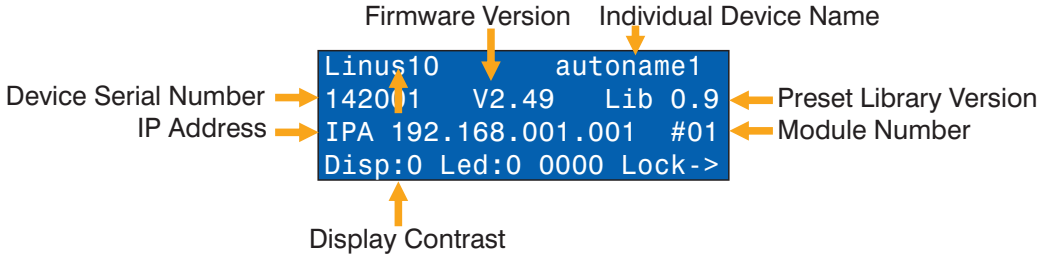
- Go to position “EQ” and push the encoder knob to enter full parametric EQ’s page.





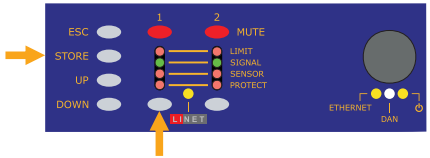
9. Device Information and Display settings

- Press the “Down” button 2x (in the main operation)



11. Quick Lock Device

- Any time you can „Quick Lock“ your device
- Press “Store“ and the 1st Channel “Selection“ button (also to unlock)

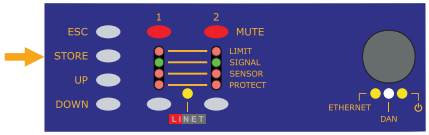


Display switch automatically to the main configuration page and indicates the lock of the device with the letter “L”.

Attention: *Only the functionality of the “Mute” buttons is enabled. All other operation / selection functions are disabled.*

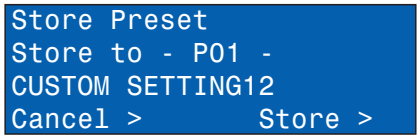
12. Store Customized User Preset

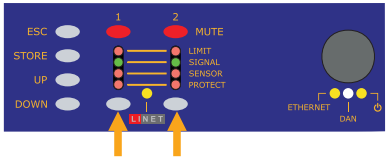
- Store your customized user preset setting to the library of the unit.



a) Library positions 01 to 05 are dedicated for this purpose.
b) Unique name for your customized preset.
c) “Store“ or “Cancel“ to proceed.

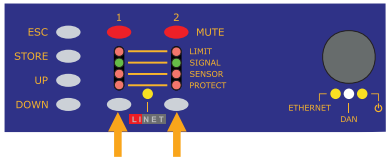
Turn the rotary encoder knob to select numbers or letters for the current digit.
Press the select button to switch between the digits.





13. Signal LED

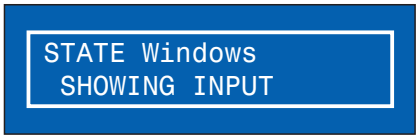
- Select signal In- or Output LED indication by push Selection button 1+2 at the same time.



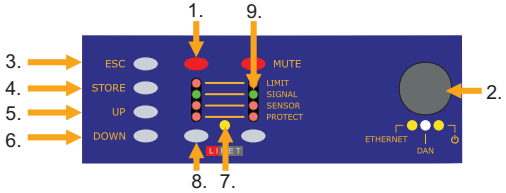
The display will show the following messages a few seconds.

For Signal Output LED indication:

For Signal Input LED indication:



4.2 Indicators



1. Channel mute buttons
2. Rotary encoder knob. Selects, changes and enter parameters
3. “ESC“ escape button. Press it any time to deny selection and / or go back to main operation page
4. “Store“ user preset setting under position 1. to 5.
5. “Up“ skips operation pages up.
6. “Down“ skips operation pages down.
7. LiNET LED Indicates if digital signal is selected - LED on → Digital audio input
   - LED off → Analog audio input
8. Channel selection buttons
9. Input - or Output signal LED‘s

4.2.1 Limit LEDs (Channel A / Channel B)

This LED indicates an overloading of the corresponding amplifier channel.

4.2.2 Input Signal LEDs (Channel A / Channel B)

The green Signal LED is illuminated when the input signal level is -45dBU or -60dBFS and are unaffected by the DSP output settings.

Note that these LED‘s are driven only by the input signal and will therefore also be active if all output channels are muted.

4.2.3 Sensor LED

This orange LED is off when the sensor feedback loop is closed. Should the choosen preset demand for a sensor feedback and the cable is not connected this LED will be illuminated as a warning signal to check your cables.

4.3 Power Amp Protection Systems

4.3.1 SOA Protection

To ensure that the power transistors are only used in the Safe Operation Area (SOA), the SOA-protection would mute the corresponding channel if not. If the power transistors are back in their SOA, the channel is automatically unmuted again.

4.3.2 DC Protection

Each output of the power amp is constantly monitored for persistent DC voltage levels. If the 10 V threshold voltage is exceeded at any of the outputs, the corresponding channel will be automatically switched off. A DC issue can be located in the output stage, the driver stage, or at the input of the amplifier.

Output Stage

When a persistent DC voltage is located at an output stage, the main SMPS will be permanently switched off. This will be indicated on the display.

4.3.3 DC Servo

To prevent DC Offset at the speaker output, the **LINUS10** amplifiers are fitted with two DC Servos (hence there are no capacitors in the signal path!).

4.3.4 Overcurrent Protection

The output stage is permanently monitored for possible current surges. There are two limiting levels of overcurrent depending on output voltage. These limits will be set automatically. This improves reliability without degrading sound quality when driving complex loads.

4.4 Mains Protections

4.4.1 Inrush Current Limitation

Within 2 seconds of the **LINUS10** amplifiers being connected to the mains, the inrush current limiter will charge the primary capacitances in a controlled way, limiting the maximum mains current during startup.

4.4.2 Mains Overvoltage Detection

The mains overvoltage detection is always operative. When the mains voltage exceeds approx. 267 V (230 V operation), or 134 V (120 V operation) the amplifier will switch off. When the mains voltage returns to nominal value, a soft start occurs.

4.4.3 Mains Surge Overvoltage Protection

The **LINUS10** is fitted with a varistor unit, protecting the SMPS from sporadic surge overvoltages coming from the mains distribution.

If active, this protection is indicated by a orange LED behind the dust cover (on the right side). If this LED is not lit, this means that the amplifier has already suffered significant overvoltages surges and that the varistor protection needs to be exchanged.

4.4.4 Mains Failure Detection

Mains Failure Detection is always operative. When the mains supply is interrupted for approx. more than 4 mains cycles, the amplifier will detect and display a mains voltage loss. When the mains voltage returns to a normal value, a soft start occurs and the amplifier returns to normal / previous operation.

4.4.5 Fuse Protection

When driving the **LINUS10** at very high output levels over a longer period of time (i.e. several seconds and minutes) the average mains current draw can become very high. In such situations, the FuseProtect limiter will reduce the output signal in order to prevent the external mains breaker from tripping. But this limiter in turn will not affect the output signal on dynamic music signal and short current peaks, thus guaranteeing the full available peak output power.
Due to the very large output power of the **LINUS10**, this limiter has been set to a maximum average mains input current of approx. 24 A.

This design choice has been made to achieve the best compromise between mains breaker tripping protection and long term output power capabilities of the **LINUS10**. This choice allows the **LINUS10** to deliver more output power over a longer time period, which it is easily capapable of. But in turn this also means that mains breaker tripping still can occur when driving the **LINUS10** at very high output levels over a longer time period.

Please note that the FuseProtect limiter only controls the average mains input current, not the short term peak input current. This means that with very dynamic music signals the (short term) input current can still reach very high levels, which can be very demanding for a mains distribution. See also chapter 3.3.3.If active, by a red LED behind the dust cover (approx. in the top middle of the dust cover).

4.5 Main SMPS Protections

4.5.1 Overcurrent Protection

Main SMPS (Switched Mode Power Supply) transformer current of your **LINUS10** amplifier is continuously monitored. If over current occurs, the main SMPS immediately stops working. Should there be an internal failure, this feature prevents other parts being damaged.

4.5.2 Overload Protection

In case of extremely high output levels with heavily clipped output signals and low loudspeaker impedances < 3 Ω, this additional protection will reduce the amplifier stage output current limitation very quickly. If activated, this indicates that the amplifier is running close to it's absolute maximum power capacity. In normal operation (no clipping or only slight clipping) this protection should never be activated.
If active, this protection is indicated by a white LED behind the dust cover (on the top left side of the dust cover).

NOTE: Please reduce the input level if you see this LED flashing.

4.5.3 Thermal Protection

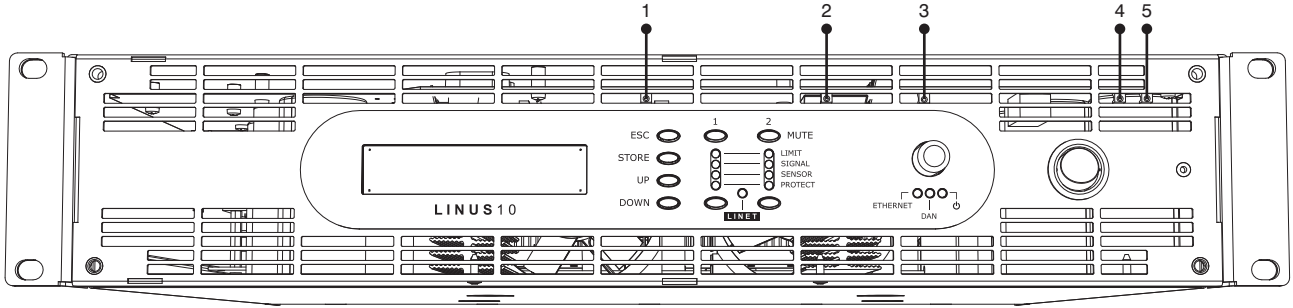
The temperature of the main SMPS transformer of your **LINUS10** amplifier is permanently monitored. If the temperature exceeds 85 °C, the main SMPS is switched off. The amplifier's display will indicate a main SMPS error in this case.

4.6 Fans

The fans mounted in your **LINUS10** amplifier operate permanently, but as long as the temperature remains below 40 °C, they run at their slowest speed and can hardly be heard. The highest detected temperature from either channel controls the speed of the fans. Above 40 °C the speed is increased until it reaches its maximum value.

4.7 Internal LED Description

This section describes the internal status-LEDs which can be seen from the front behind the dust filter. These status LEDs can be helpful for trou - bleshooting in case of an unexpected amplifer behaviour.



1. Overload Protect limiter LED:

This white LED will flash if the Overload Protection Limiter is activated. Please see chapter 4.5.2 for more details.

2. FuseProtect limiter LED / Mains supply status indicator LED:

During normal operation, this red LED indicates that the FuseProtect lim- iter is activated. *Please see chapter 4.6.5 for more details.*

Additionally, if the amplifier has been powered down (standby), this LED indicates the status of the mains:
SMPS / Amplifier Off (standby) and FuseProtect LED On: Bad mains volt - age or no mains voltage at all
SMPS / Amplifier Off (standby) and FuseProtect LED Off: Mains voltage OK

3. SMPS On-LED:

This green LED will be constantly on as long as the main SMPS inside the amplifier is working. If the amplifier has been powered down (standby) this LED will be slowly pulsating, indicating that the SMPS is off but ready to be switched on again at any time.

4. ICL On-LED:

This green LED indicates that the ICL (Inrush Current Limitation) is work - ing properly. This LED should always be on as long as the amplifier is connected to the mains (even if powered down or in standby). If this LED is not on although the amplifier is connected to mains then please check your mains distribution.
See also chapter 3.3.2 and 4.6.1 for more details.

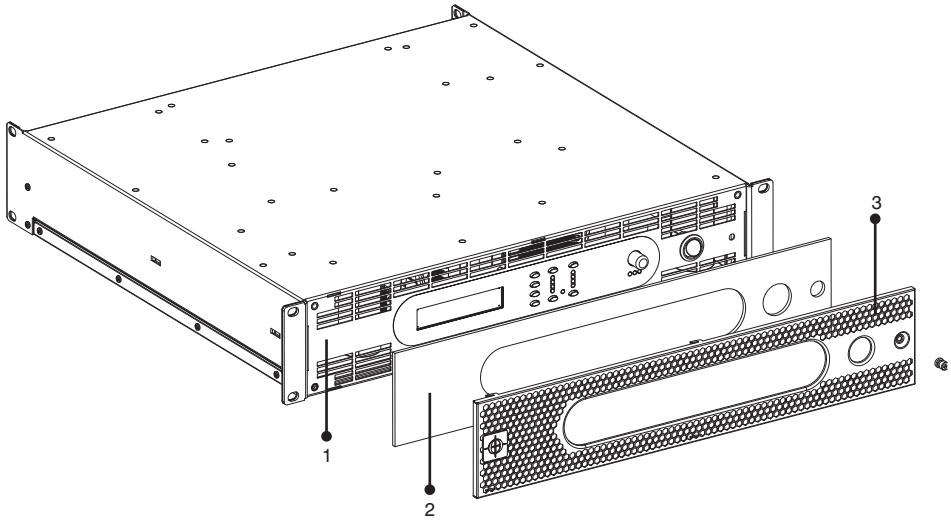
5. Mains Surge Overvoltage Protection LED:

This yellow / orange LED indicates the the surge overvoltage protection is still active. *Please see chapter 4.6.3 for details.*

4.8 Filter Cleaning

The air intake on the front of your **LINUS10** amplifier is fitted with a removable filter system. If the filter becomes clogged, the unit will not cool as efficiently as it should and may result in reduced output levels.

For changing the filter, no tools are required: first, remove the knurled screw right next to the StandBy switch. Second, push the whole grill-assembly carefully to the right and pull it straight of. The grill is hooked into the amplifiers main enclosure, so be careful not to bend or break the hooks. The foam is just pinched in between the enclosure and the grill.



LINUS10 Filter Assembly
1 Enclosure front
2 Foam filter
3 Injection molded grill

Output Power 1 kHz, THD ≤ 1%, in dual channel operation typical values @ 230 V/ 50 Hz duration limited by fuse / thermal protection for RL<=8 Ω	1250 W @ 16 Ω 2300 W @ 8 Ω 4000 W @ 4 Ω 5100 W @ 2 Ω
Peak Output Power 1 kHz, single sine wave in dual channel operation typical values, may be subjected to component tolerances	1250 W @ 16 Ω Peak 2500 W @ 8 Ω Peak 4900 W @ 4 Ω Peak 5300 W @ 2 Ω Peak
Circuitry	Hybrid Class H
Signal to Noise-Ratio 22 Hz – 20 kHz, 4 Ωload	>107 dB (unweighted) >110 dB (A-weighted)
Power consumption @ 230 V * both channels driven at 550 W output power (approx. ⅛ of max. THD limited output power with pink noise to represent typical music signal)	Amplifier standby (power off): 8 W Idle (Amp powered on): 60 W 4 Ω: 1900 W* 2 Ω: 2100 W*
Maximum output voltage in dual channel operation; typical values, may be subjected to component tolerances	± 200 V peak
Maximum output current in dual channel operation; typical values, may be subjected to component tolerances	± 72 A peak

Frequency Response @ 4 Ω load with 120 W ouptut power	20 Hz – 20 kHz:± 0,07 dB
THD+N over frequency @ 4 Ω load with 120 W output power	20 Hz – 17 kHz: <0,1%
Damping Factor 8 Ω load, 1 kHz and below	>400
Input Impedance	12 kΩ balanced
Input Gain	32 dB
Maximum Analogue Differential Input Level	+18 dBu / 6,16 Vrms / 8,70 Vp
Minimum Loudspeaker Load Impedance lower values are safe, but out of specification no performance guarantees can be given when driving lower impedances than specified	Zmin = 2 Ω for Dual-Channel operation
Protection Circuits	Inrush-current limitation, protection circuits against power on / off transients, temperature monitoring of transformers and heatsinks, output DC protection, temperature dependent SOA protection, intelligent mains fuse protection, SMPS overload protection, overcurrent limitation
Limiters	Selectable FuseProtect Limiter
Cooling	Two temperature dependent speed-controlled axial fans
LED Indicators	LEDs for Sensor, Protection, Limit, Signal, Ethernet and LINET
Input Connectors	Two 3-pin XLR female analogue input connectors, pin 2 = hot (inphase) Two 3-pin XLR male passive loop through connectors Two LINET network connectors (in and out) RJ45 Two Ethernet Link connector RJ45 marked Prim/Sec One AUX RJ45 and One DAN RJ45 One 5-pin XLR female sensor input
Power Output Connectors	One 4-pole SPEAKON® connector for each output channel (bi-amping possible)
Modes of Operation	Dual channel (Stereo)
Input Sources	Analogue, LINET (AES/EBU)
A/D – D/A Converters	24 bit / 96 kHz

We reserve the right to make technical alterations without prior notice

Latency	Min. 2,70 ms with DSP on and AES or LINET input Min. 2,00 ms with DSP on and analog input
Digital Inputs	AES–EBU, 32 – 196 kHz with sample rate converter LINET digital audio network
AC mains *: Approximative mains voltage ranges where the amplifier can be used. Amplifier output power performance will decrease with lower mains voltages than the rated 230 V / 120 V and slightly increase with higher mains voltages.	Dual-voltage SMPS with automatic voltage range selection 230 V/ 120 V, 50–60 Hz Operating voltages*: 230 V range: 180–267 V, 120 V range: 70–134 V Neutrik 32 A powerCON® connector
Operating Temperature	+5 °C to +55 °C
Dimensions (W × H × D)	483 × 88,1 × 452,5 mm / 19 × 3,5 × 17,2 inches (19”, 2U)
Net Weight	13 kg / 28,7 lbs
Shipping Dimensions (W × H × D)	615 × 135 × 540 mm (0,045 m3) / 21,3 × 5,3 × 24,2 inches
Shipping Weight	15,6 kg / 34,4 lbs

We reserve the right to make technical alterations without prior notice

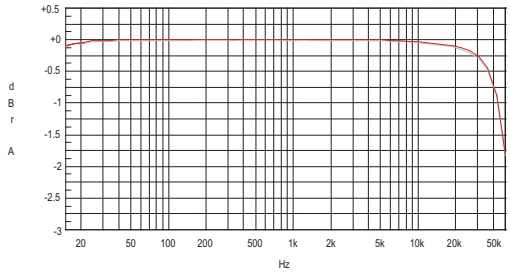


Figure 6.1
Gain vs. frequency, 120 W output power, 4 Ω (channel 1, channel 2)
(Measurement of a typical performance)

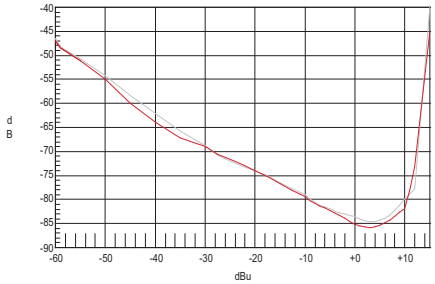


Figure 6.2
THD @ 1 kHz, 4 Ω vs. input voltage (channel 1, channel 2)
(Measurement of a typical performance)

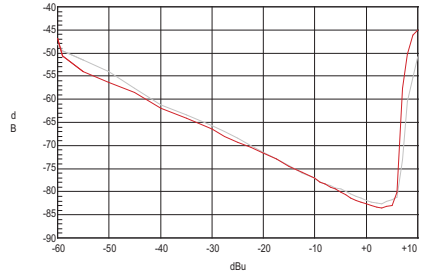


Figure 6.3
THD @ 1 kHz, 2 Ω vs. input voltage (channel 1, channel 2)
(Measurement of a typical performance)

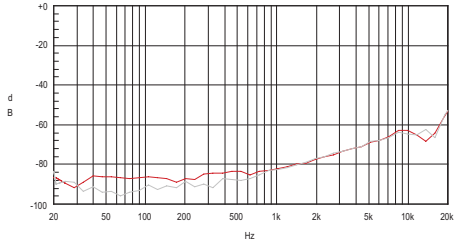


Figure 6.4

THD vs. frequency, 120 W output power, 4 Ω (channel 1, channel 2)

(Measurement of a typical performance)

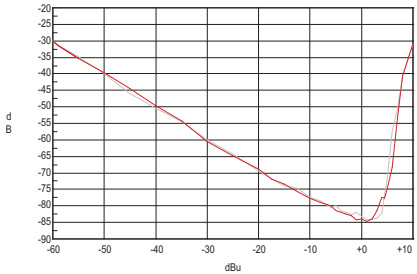


Figure 6.6

DIM 100 intermodulation distortion @ 4 Ω vs. input level (channel 1, channel 2)

(Measurement of a typical performance)

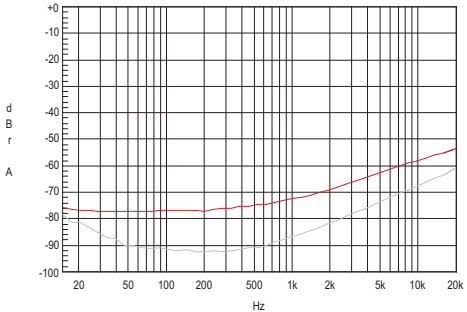


Figure 6.5

Channel separation vs. frequency @ 250 W / 2 Ω (channel 1, channel 2)

(Measurement of a typical performance)

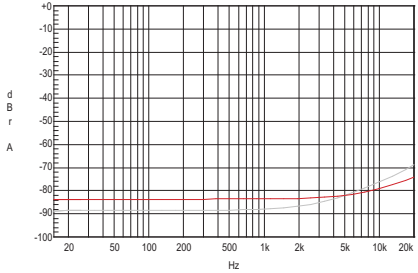


Figure 6.7

Common mode rejection ratio (channel 1, channel 2)

(Measurement of a typical performance)

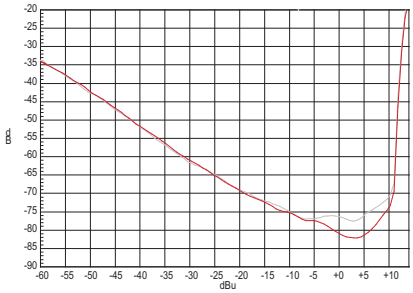


Figure 6.8

SMPTE intermodulation distortion (60 Hz and 7 kHz) @ 4 Ω vs. input level (channel 1,channel 2) *(Measurement of a typical performance)*

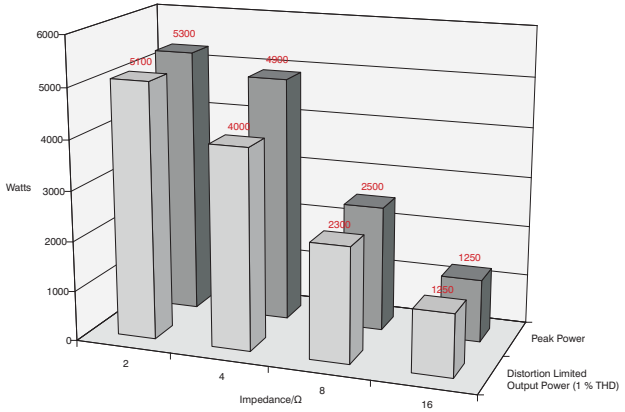


Figure 6.9

LINUS10 *(Measurement of a typical performance)*

7.1 Summary of Warranty

CODA AUDIO guarantees the **LINUS10** Amplifier to be free from defective material and/or workmanship for a period of six (6) years from the date of sale. When a defect occurs under normal installation and use, **CODA AUDIO** will repair the product under this warranty. In this event, please return the amplifier to your dealer/distributor together with a copy of your sales receipt as proof of purchase.

This warranty provides that examination of the returned product must indicate in our judgement a manufacturing defect.

7.2 Items Excluded from This Warranty

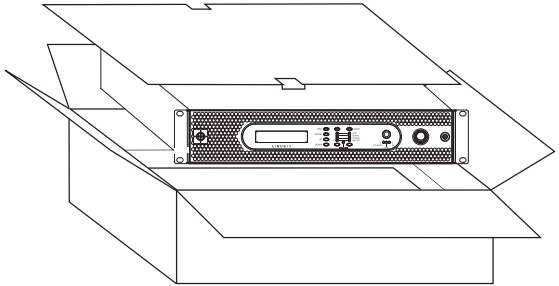
CODA AUDIO is not liable for any damage caused by shipping accidents, misuse, abuse, operation with incorrect AC voltage, operation with faulty peripheral equipment, modification or alteration without prior factory approval, service by an unauthorized service center and normal wear and tear. Amplifiers on which the serial number has been removed or defaced are not eligible for warranty service.

7.3 What **CODA AUDIO** Will Do

CODA AUDIO (or its appointed agent) undertakes to rectify any defect regardless of the reason for failure (unless excluded from this warrenty), by repair, replacement or refund as it sees fit.

7.4 How to Obtain Warranty Service

You must notify your dealer/distributor of your need for warranty service. All components must be shipped in the original packaging.



7.5 **CODA AUDIO**'s Product Improvement

CODA AUDIO reserves the right to improve the technical standard of its products without giving prior notice. If in any doubt, please consult your dealer/distri butor or contact **CODA AUDIO** directly for clarification.

PLEASE ENCLOSE THIS COMPLETED FORM WITH THE AMPLIFIER
DO NOT SEND SEPARATELY

Owner's Information

Company Name: _
_ _
Contact: _
Address: _
_ _
_ _
_ _
Telephone: _
Facsimile: _
eMail Address: _
Model: _
Serial Number: _
Purchase Date: _

Expired Warranty

If the warranty has expired, payment will be:

Cash/Cheque

VISA

MasterCard

Shipping Address

To transport the amplifier, the original packing materials must be used. Please return the amplifier to the following address or your nearest **CODA AUDIO** appointed distributor.

Nature of problem occurred

Please describe the conditions that existed when the problem occured and what attempts were made to correct it: _ _ _ _ _ _ _ _ _ _ _ _ _ _
_ _
_ _
_ _
_ _
_ _
_ _
_ _
_ _
_ _
_ _
_ _
_ _
_ _

Other equipment in your system: _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
_ _
_ _
_ _
_ _
_ _

Our web site: **www.codaudio.com** provides a complete list of **CODA AUDIO** dealers/distributors.

CODA AUDIO GmbH, Boulevard der EU 6, 30539 Hannover, Germany

9 Maintenance Information

Cleaning and servicing the inside of the amplifier must never be carried out by unqualified personnel. The amplifier must never be opened by unqualified personnel.

Cleaning and servicing work on the inside of the amplifier must only be carried out by qualified personnel.

Qualified personnel is defined as a person who has gained specialised relevant knowledge of electronic engineering through education, training, and experience, and who has sufficient knowledge of all relevant gov - ernmental work safety regulations to be in a position to judge the safe functioning of power amplifiers based on technical rules according to IEC 60065 (IEC 60065 (DIN EN 60065) “Safety Requirements for Audio, Video or simlar Electronic Appliances”).

In order to guarantee the safe functioning of the amplifier, it has to be checked regularly, depending on its application but at least once a year, by a properly qualified person.
Advice on how to carry out these checks can be found in DIN VDE 0702-1 “Safety Checks for Electronic Appliances” .

An amplifier that is considered to be unsafe must be labelled accordingly and stored in a safe place to prevent this amplifier being used mistakenly.

10 Decommissioning

During the decommissioning process of the amplifier, all legally prescribed rules and procedures must be adhered to.

Mailing Address:
CODA AUDIO GmbH
Boulevard der EU 6
30539 Hannover
Germany

Telephone:
+49 (0) 511 86655888

Facsimile:
+49 (0) 511 86655887

Internet:
www.codaaudio.com

Email:
contact@codaaudioaudio.com

Changes Made To The Amplifier

NOTE / IMPORTANT:
Please consider that any changes made to the amplifier have to be documentated in writing and passed on to the buyer in the event of resale!