



### Key Features:

- 200 or 400 watt output power is available.
- 70v or 100v capability for constant voltage speaker lines.
- Full remote control and monitoring functions available.(when used with optional remote modules).
- Integrated standby power supply.
- Remote-start function for mains and battery operation with inrush current limiter protection.
- Power-on noise attenuation.
- Status-LED indicators.
- LED meters with CLIP indication.
- Active, temperature-controlled ventilation.

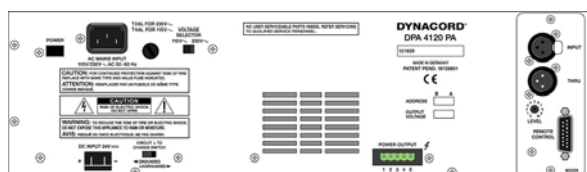
### General Description:

The DPA4120/40 amplifiers have been specially designed to ensure durable performance and reliable operation of sound reinforcement systems with several independent loudspeaker lines. The units are best suited for paging and pre-recorded message installations, alert systems, and for general music applications in industrial enterprises, offices, multi-function halls, sport arenas, schools, churches, hotels, hospitals, super markets, cruise ships, and similar venues.

The DPA4120/40 amplifiers can either be operated on the AC mains or connected to an external 24 V battery power source. Switching to battery operation is accomplished via an internal relay.

The DPA4120 and 4140 provides the following remote monitoring functions when used with the remote modules in a ProAnnounce system:

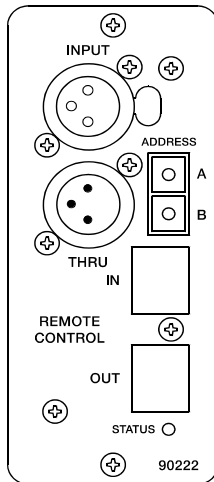
- Setting input levels
- Reading level values of the audio level controls.
- Setting level offsets via virtual controllers.
- Mute function (via level control).
- Remote control power operation ON/OFF.
- Battery operation remote control ON/OFF.
- Monitoring and fault message transmission of thermal overload warnings on the mains transformer or power output stages.
- Monitoring of the functioning of the power output stages via pilot tone signal.
- Ground fault detection for loudspeaker lines.



### Technical Specifications:

Nominal output power with mains supply	1 x 200 or 1x400 W
Input characteristics:	Electronically balanced
Nominal input level	775 mV = 0 dBu / 10 k ohms
Power output characteristics:	Balanced, floating
Nominal output voltage -AC supply	100 V / 70 V / 50 V / 20 V
Nominal output voltage - battery supply at 24 V DC	79 V / 56 V / 40 V / 16 V
Nominal load impedance	100 ohms (50 / 25 / 4 ohms)
Noise (A-weighted)	-56 dBu
THD	<1 %
Frequency response	60 Hz to 20 kHz
Distortion-limited response (PA NOMINAL -3dB, kS = 1 %)	60 Hz to 5 kHz
Crosstalk	80dB at 1 kHz
MONITOR output characteristics:	Electronically balanced
MONITOR nominal output voltage	2 V = + 8.2 dBu
MONITOR nominal load impedance	600 ohms
MONITOR frequency response	60 Hz to 20 kHz
Operating temperature range	+5 °C to +40 °C
Dimensions	(W x H x D) 19" (483 mm) x 3HU (132 mm) x 345 mm
Installation depth without external connectors	340 mm
Installation depth incl. external connectors (max.)	400 mm
Weight	22.5 kg
Color	Anthracite

## NRS90222 Remote Input Module



This single-channel input module provides DPA 4120 or DPA 4140 power amplifiers with remote functionality.

The module allows connecting balanced XLR-input and XLR-thru lines as well as connection to the remote control bus of the DPM 4000 (RS-485). Prior to connecting the amplifier to the operating voltage, the unit's address has to be set using the switches "A" and "B" (A=low value part)

The following remote functions are available:

Control:

Level control, Mute, Monitor activation (Input / Output), Mains

operation ON/OFF, Battery operation ON/OFF, Pilot tone ON/OFF (optionally available)

The following messages are available : Output level, Pilot tone detection, Ground fault detection, Thermal overload amplifier / mains transformer, Configuration, Measured values of current and voltage at the power output, Extension-kits

## Available Accessories:

Model	Cat. No.	Description
NRS90206	121639	Pilot Tone Monitor module
NRS90222	121674	Remote Input Module
NRS90225	121677	Standard Input Module
NRS90207	121799	Ground fault monitor module
NRS90208	121641	Input transformer

## Architecture & Engineering Specifications:

The remote control amplifier unit shall provide the following remote monitoring functions:

Setting input levels, reading level values of the audio level controls, setting level offsets via virtual controllers, mute function (via level controls), remote control power operation ON/OFF, battery operation remote control ON/OFF, monitoring and fault message transmission of thermal overload warnings on the mains transformer or power output stages, monitoring of the functioning of the power output stages via pilot tone signal, and ground fault detection for loudspeaker lines.

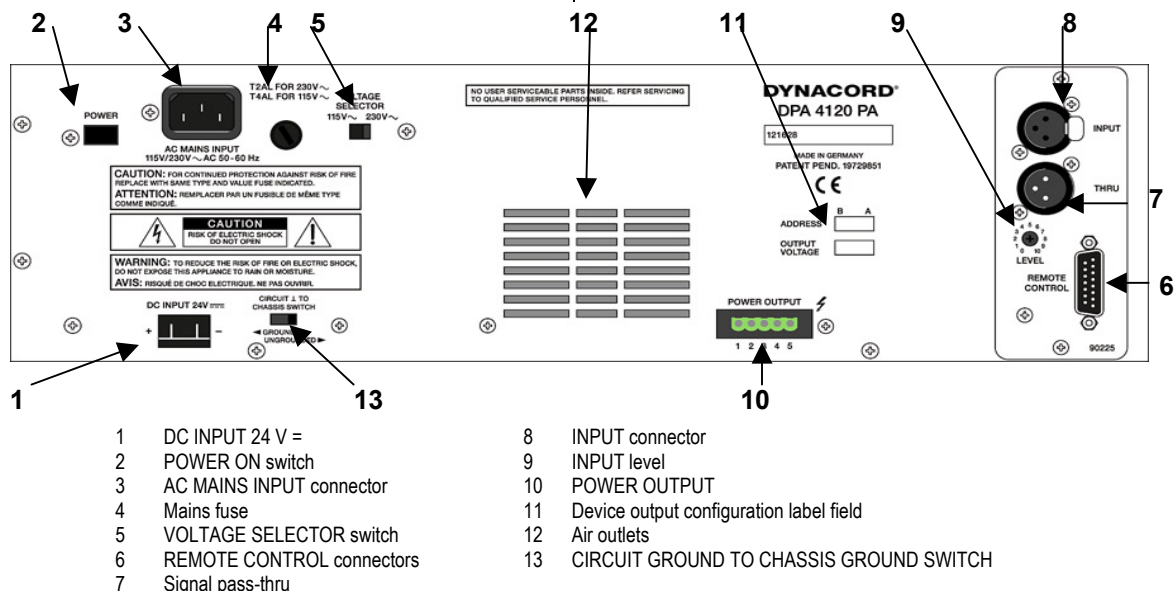
The amplifier shall either be powered by AC mains or connected to an external 24 V battery power source. Switching to battery operation shall be accomplished via an internal relay.

The amplifier shall be 3 RU in height and provide, 1x200, or 1x400 watt operation depending on the model. The output channel must be driven through on-board transformers.

The amplifier shall be the Dynacord ProAnnounce DPA4120 or DPA4140.

## Ordering Information:

Model	Cat. No.	Description
DPA4120	121792	1x200 Power Amplifier
DPA4140	121793	1x400 Power Amplifier w/remote



- |                             |  |
|-----------------------------|--|
| 1 DC INPUT 24 V =           | 8 INPUT connector                          |
| 2 POWER ON switch           | 9 INPUT level                              |
| 3 AC MAINS INPUT connector  | 10 POWER OUTPUT                            |
| 4 Mains fuse                | 11 Device output configuration label field |
| 5 VOLTAGE SELECTOR switch   | 12 Air outlets                             |
| 6 REMOTE CONTROL connectors | 13 CIRCUIT GROUND TO CHASSIS GROUND SWITCH |
| 7 Signal pass-thru          |  |

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