

# 1-CHANNEL POWER AMPLIFIER WITH PILOT TONE

# RCS

BA-720 DP  
**720 W**

BA-1000 DP  
**1000 W**



Balanced inputs for programs, **priority and pilot tone module**



## Description

These 19" 1-channel power amplifiers are **fully monitored** and ideal for the use in professional audio applications with 100 V, 70 V and 25 V line systems.

The amplifiers have malfunction message contacts for all relevant functions in case of emergency.

The devices are manufactured in state-of-the-art production processes using high-quality components such as toroidal transformers.

They have been designed for continuous operation. They are absolutely short circuit and open circuit proof and are equipped with all relevant protection devices.

Please consider the following features:

- All the amplifiers of the "DP" series have one electronically balanced audio input for programs and one input (with **priority**) for priority announcements, etc.
- Each power amplifier can be equipped with 1 **pilot tone module** (FD-20) which monitors the performance of the amplifier.
- The amplifiers have electronically balanced inputs and outputs on screw-type connectors. Possible hum pick-up from ground loops is avoided through the balanced inputs and outputs.
- The screw-type connectors substantially facilitate the wiring for signal input. Time consuming fitting of the input cables with XLR connectors is eliminated.
- By means of a "Power Remote" contact the amplifier can be switched on, even if the power switch is in the off position.

- The multicoloured LED indicators located on the front panel continuously indicate the operating status of the amplifier including protection functions and possible dangers.
- All models feature soft start and a special circuit which suppresses unpleasant switch-on noise.

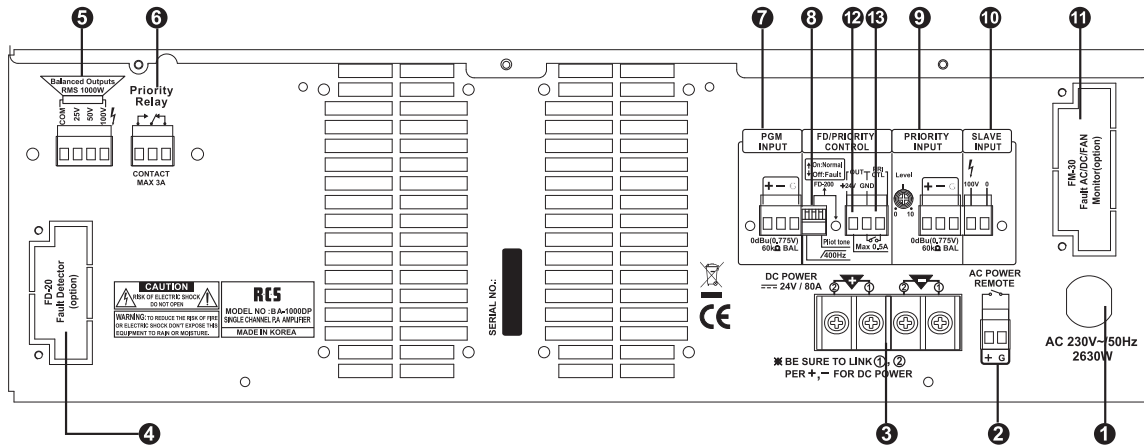
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## Model designations

**1-Channel Power Amplifier**, ..... **BA-720 DP**  
1x 720 W RMS, 3 RU, prepared for FD-20 and FM-30

**1-Channel Power Amplifier**, ..... **BA-1000 DP**  
1x 1.000 W RMS, 3 RU, prepared for FD-20 and FM-30

## Rear view




- 1 IEC power inlet (cold condition)
- 2 Remote switch-on via "Power Remote"
- 3 24 V DC power supply terminal
- 4 Slot for pilot tone module FD-20 (optional)
- 5 Speaker outputs, 25 V, 50 V and 100 V
- 6 Change-over contact for priority
- 7 Input on screw-type connectors
- 8 Switches for high-pass filter (400 Hz) and FD-20 module
- 9 Balanced input for priority signal
- 10 Input for 100 V speaker signal
- 11 Slot for Error Monitoring-Module FM-30 (optional)
- 12 24 V (500 mA) output for switching external relays or similar units
- 13 Contact for priority enable

Technical data	BA-720 DP	BA-1000 DP
Output power	1x 720 W (RMS)	1x 1.000 W (RMS)
Input sensitivity	0 dB (0,775 V), 60 kOhm, balanced	
Output impedance	25 V, 50 V, 100 V	
Frequency response	35 ~ 20.000 Hz (better than -3 dB)	
Signal-to-noise ratio	better than 100 dB	
THD at 1 kHz	better than 0,4%	
Input filter	400 Hz / -3 dB	
Power consumption	1.890 W	2.630 W
Current consumption (230 V)	3,8 A 1/8 power current draw	5,4 A 1/8 power current draw
	9,0 A at 1/1 rated power current draw	12,0 A at 1/1 rated power current draw
AC power supply	220-230 V, 50 ~ 60 Hz	
DC power supply	24 V (emergency power supply)	
Dimensions (W x H x D)	483 x 88 x 374 mm; 3 RU	
Weight	approx. 12,5 kg	approx. 14,5 kg

**OPTIONAL | Pilotone-Module FD-20**

**Description**

This pilot tone module serves to monitor the performance of amplifiers. The generator produces a 20 kHz test signal. Apart from the test of the power amplifier functioning, the speaker line is checked for short circuit faults.

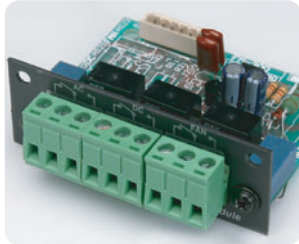


**Pilotone-Module ..... FD-20**  
Extension-Module for the „DP“ series

**OPTIONAL | Error Monitoring-Module FM-30**

**Description**

The Error Monitoring-Module has three potential-free Relay contacts (NO/NC). Fault monitoring is operating if AC- or DC-fuse is blown and if AC- or DC-power is off or disconnected. Also the module reacts when fan fault or fan is disconnected.



**Error Monitoring-Module ..... FM-30**  
Extension-Module for the „DP“ series