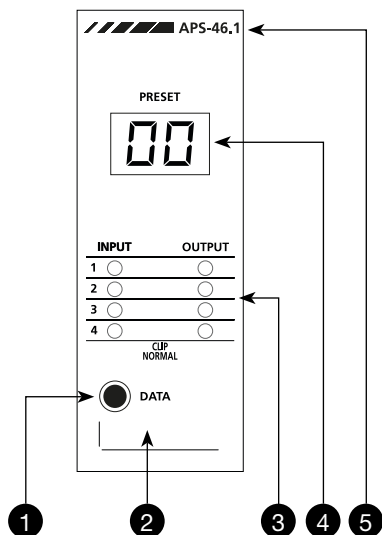


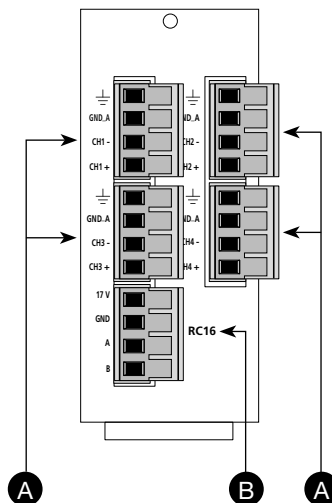
# APS-46.1-EQ-RC

## 4 Channel DSP module



Front view (FRS)

- 1 Socket for programming
- 2 Labeling of the module
- 3 Level indication (Bus 1–4)
- 4 Preset number (1–16)
- 5 Model code



Rear view (RWS)

- A Connector block for differential audio output
- B Connector block for remote control

## Description

### Product versions

APS-46.1-EQ-RC	For standard applications
APS-46.1-CHURCH	For churches

### Description and application

4 channel DSP module for the optimal adjusting of loudspeaker system to the environment

### Setting on the module

DIP switch for NF connection of mixing bus to BF-bus

- simple driver stage (M -> BF)
- by digital signal processor (EQ -> BF)

### Function of the module

- DSP functions for each channel:
  - Time delay (122 ms divisible on all four channels)
  - Two volumes switchable: volume, volume «shadow» (-100 dB to +6 dB)
  - Equalizer (10 fully parametric bands,  $\pm 12$  dB)
  - Two point dynamic (deux modes: expander, compressor, limiter)
- 16 presets switchable
- Display of preset number
- Simple indicator (normal, overdrive)
- Various DSP functions remotely controlled
- Switching between channel processing and simple driver stage
- Parameter settings over the software

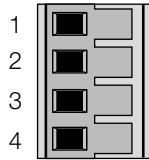
### Rear panel (RWS)

RWS-46.1

**Technical specifications**

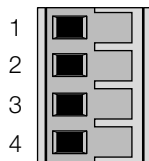
**Connection diagram (A)**

- 1 Casing/Ground
- 2 NF ground
- 3 NF channel –
- 4 NF channel +



**Connection diagram (B)**

- 1 Supply remote control 17 V
- 2 Supply remote control/ground
- 3 Data line RC16 A
- 4 Data line RC16 B



**Data**

**Removal of the module from a unit**

- a) CAUTION: the amplifier system must be disconnected from mains and battery supply!
- b) Remove the covering strips at the cabinet
- c) Unscrew the mounting screws
- d) Pulling out the module forwards

**Usage of the module**

The APS-46.1-EQ-RC connects the input busses (M1–M4) alternatively directly or over a digital signal processor with the output busses (BF1–BF4).

The APS-46.1-EQ-RC is operated in the APS System with an APS-990-EQ. When using multiple APS-46.1-EQ-RC, the NF-conection per bus may be set only once.

In addition, the signal processing of the APS-46.1-EQ-RC on bus 1 can influence the measurement of the APS-177

**Functions of the module**

- Signal processing of mixing bus on BF bus or RW (symmetrical output)
- Communication with the processor module APS-990-EQ

**General informations**

Signal-to-noise ratio	> 80 dB
Power supply	17 V DC (internal)
Current consumption	160 mA (without GM-7420)
Power consumption	2.72 W
Weight (incl. RWS)	0.420 kg
Max. number of modules	1

**Data transfer between the module and APS-990-EQ**

Via the I<sup>2</sup>C bus (preset selection, switchover volume)

**Important**

The use must be in accordance with the programming!