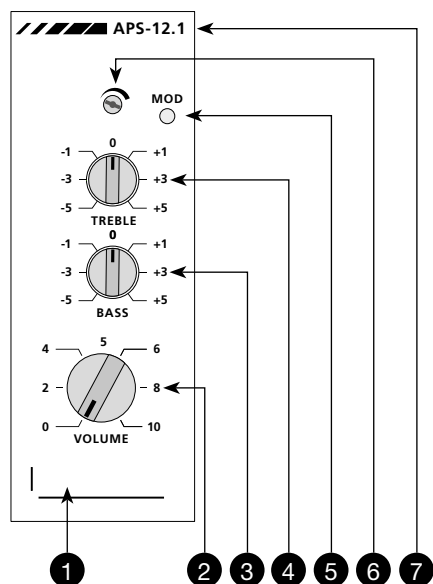


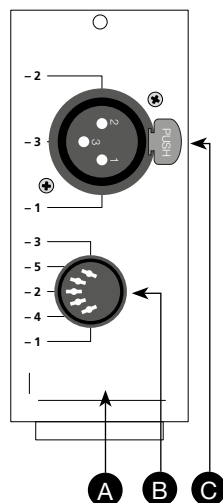
# APS-12.1

## Input module with audio signal detection



### Front view (FRS)

- |                      |                            |
|----------------------|----------------------------|
| 1 Sound source label | 5 Activation level control |
| 2 Volume control     | 6 Activity indication      |
| 3 Bass control       | 7 Model code               |
| 4 Treble control     |                            |



### Rear view (RWS)

- |               |
|---------------|
| A Input label |
| B Socket DIN  |
| C Socket XLR  |

## Description

### Designation and function

Universal input module for the reproduction of a sound source according to the label – with audio signal detection for an action

### Possible sound sources

Dynamic microphone, condenser microphone, wireless microphone, music device, line

### Use of the module

As an independent input

### Adjustments on the module

- Adaptation to the sound source (input sensitivity)
- Attack time and release time
- High-pass filter
- Bypass for bus 1 and bus 2

### Function of the module

According to the programming of the APS-990 processor module

### Controls for volume, bass and treble

Do affect the tone in all active loudspeakers

### Security

The operating knobs can be removed (with pliers) – operation only then possible with the aid of a screw-driver; an additional cover makes the operation impossible (prevents operating errors)

### Rear panels (RWS)

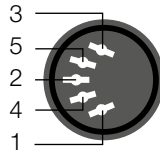
RWS-01 (standard)

RWS-12 (option: as RWS-01 but with additional internal transformer and level adjustment)

**Technical specifications**

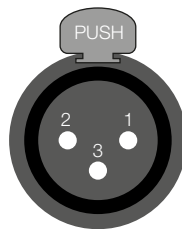
**Connection diagram for the DIN Socket (B)**

- 1 LF (low frequency) input balanced +
- 2 Ground/shield
- 3 LF input balanced or unbalanced (unbalanced = left channel; mono together with 5)
- 4 Remote control
- 5 LF input balanced or unbalanced (unbalanced = right channel; mono together with 5)



**Connection diagram for the XLR socket (C)**

- 1 Ground/shield
- 2 LF (low frequency) input balanced +
- 3 LF (low frequency) input balanced -



**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

**Input sensitivity**

Sselectable with the mini switches S2 and S4 – according to the table printed on the module:

Dynamic microphone	-63 dBm without phantom powering
Condenser microphone	-53 dBm with phantom powering
Wireless microphone	-37 dBm without phantom powering (S2 = -63 dBm, S6 = 0 dBm)
Music source/AUX	-10 dBm without phantom powering
Line	0 dBm without phantom powering
With RWS-12	reduction to -42 dB (e.g. from 100 V to 0 dBm; without phantom powering)

**Connection**

Microphone/Line	Balanced
Music source/AUX	Unbalanced

**Balancing**

Electronically made (at RWS-12: by LF transformer with additional electrical insulation)

**Input impedance**

Microphone	200 Ohm
Auxiliary/Line	47 kOhm
at RWS-12	600 Ohm

**Phantom powering for condenser microphone**

12 VDC

**Remote control**

Switch-on/switch-off of the amplifier unit and transmission of a digital information to the APS-990

**Remote control activation**

External (normally open) contact between pin 4 and pin 2 of the DIN 5-pole socket

**Deactivation of the switch-on/switch-off**

Remove Diode D2 at the module

**Action**

Transmission of a digital information to the APS-990

**Priority and LF activation**

According to the programming of the APS-990

**Settings on the module**

- Activation level (on the front): the signal level needed for the activation of the audio signal detection
- Attack time (ATTACK TIME): duration between the signal detection and the activity/triggering of the action (activity indication lights)
- Release time (internal control RELEASE TIME): duration between the end of the detection and the end of the activity
- High-pass filter (internal mini switch LOW CUT, S3 off = filter active): attenuation of low frequencies
- Bypass for the input buses M1 (internal mini switch S1.1) and M2 (S1.2): if the LF path is not activated, then the signal of the input is not muted on the selected bus – it is only lowered by 12 dB

**Important**

The use must be in accordance with the programming!