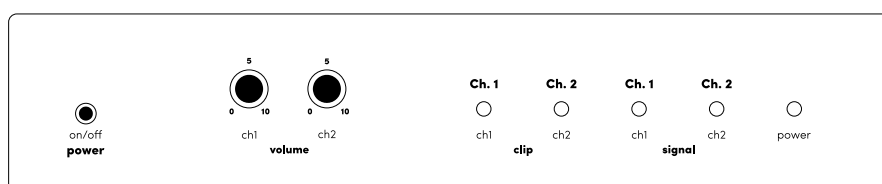


MEDIA-SERIES

MA-2.100

COMPACT 2-CHANNEL AMPLIFIER WITH INTEGRAL DSP

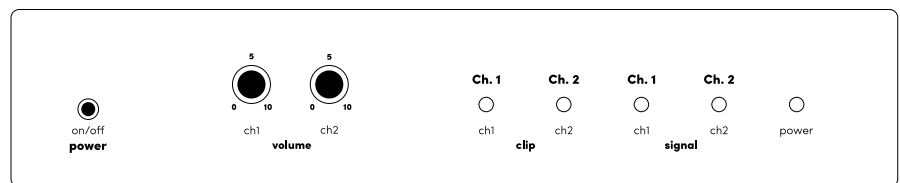


MA-2.100

DESCRIPTION

With an output power of 2×100 Watt @ 4 Ohm, Class D technology and a digital signal processor (DSP), that is config-urable via web interface, the **MA-2.100** amplifier is an ideal companion for **FOHNN® MEDIA-SERIES** loudspeaker systems.

The convection cooled DSP amplifier runs silently and weighs in at just 2.2 kg. Its 9.5", 1U housing has extremely compact dimensions (216 mm×45 mm×343 mm). The amplifier is supplied with two different options for projector mounting. An additional rack mounting kit is also available.



PLUG & PLAY

MA-2.100 amplifiers can be used straight out of the box. Configuring the amplifier via PC is not essential. The amplifier ships with the following configuration:

- 2-channel, 4 Ohm
- level controls active on the housing front panel
- all DSP settings flat

APPLICATIONS

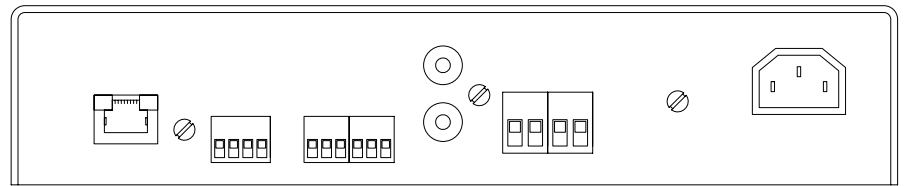
AV- and media technology, (video-) conference rooms, exhibitions and museums, churches, etc. Ideal for use together with **MEDIA-SERIES** loudspeakers.

MA-2.100

CONFIGURATION

The **MA-2.100** can be configured via web interface on a PC which is directly connected per Ethernet.

Levels on both channels can be remotely controlled (either individually or simultaneously) using a 10 k Ohm potentiometer. The front panel level controls for Channel 1 and 2 can be activated / deactivated via the web interface.



DSP

Both audio channels have a configurable DSP channel. The following settings can be implemented on each channel:

- Input Level
- I/O Routing
- High and Low Pass Filters with configurable cutoff frequency and selectable slew rate
- 5-Band Parametric Equalizer
- Output Level
- Delay (up to 60 ms)
- Limiter

MA-2.100

TENDER SPECIFICATION

COMPACT 2-CHANNEL DSP AMPLIFIER

Fanless, 2-channel DSP power amplifier in a compact 1U half-rack (9.5") housing. Class D amplifier with a power output of 100 W per channel at 4 Ohms. Equipped with switch mode power supply and integrated DSP audio tools on each channel including 5-band parametric EQ, high & low pass filters, delay, level control and limiter.

All DSP settings can be implemented via a web interface, using a PC. No additional software is required. Access to the web interface can be password protected.

If no signal is detected at the input within 30 minutes, the amplifier automatically switches to Standby Mode. Once the 5 mV threshold is exceeded at the audio input, the amplifier switches back into operational mode. In Standby Mode, power consumption is 1 W.

The amplifier's front panel includes a power on/off switch and a blue power LED, as well as master level controls with green signal and red clip LEDs for each channel. The level controls can be activated/deactivated in the web interface.

Levels on both channels can be remotely controlled, either individually or simultaneously, with a 10 K Ohm potentiometer.

Rear panel connections: two balanced line inputs with plug-in Phoenix terminals and an input impedance of 20 kOhm, two unbalanced RCA line inputs with an input impedance of 10 kOhm, two loudspeaker outputs (Phoenix terminals), a 4-pin Phoenix terminal for connecting an optional potentiometer for volume control.

The housing contains a sealed hole for accommodating a 1.5" mounting pole. Poles of up to 2" in diameter can also be mounted to the housing side using a bracket and U clamp. Optional accessories: Rack mount kit for single or dual installation in a 1U high rack configuration.

The device complies with EU directives 2011/65/EU and IEC/UL 60065 safety standards.

TECHNICAL SPECIFICATION

Output power	2×50 W/8 Ω 2×100 W/4 Ω
Factory settings	2 channels at 4 Ω, volume control enabled on front panel, DSP set to "Flat" and 0 dB
THD	0.2 % nominal power output
Frequency range	-3 dB 20 Hz – 20 kHz
DSP Functions	In- and Output Levels, Limiter, 5-Band Parametric Equalizer per channel, high- and low-pass filters with adjustable cut-off frequency and selectable slew rate, Delay (up to 60 ms per channel), I/O Routing
Interface	Ethernet service port , web-based application
Audio switching (APD)	Threshold for change to operating mode: 5 mV, Change to Standby mode after 30 min with no input signal
Volume control	Front panel, Interface (PC, password protection), individual/simultaneous remote control per channel with 10 k Ω Potentiometer
Protection circuits	Overheating, short circuit, overload
Signal/Noise ratio	-100 dB under nominal output power (rated sound pressure level)
Inputs	2 balanced line inputs (Phoenix terminal type 3.5 mm, plug-in), 2 unbalanced line inputs (RCA)
Input sensitivity	balanced – 750 mV, unbalanced – 750 mV
Input impedance	balanced: 20 kΩm, unbalanced: 10 kΩm
Outputs	2 loudspeaker outputs (Phoenix terminal type 5.08 mm, plug-in)
Power supply	100 – 240 VAC, 50/60 Hz
Power consumption	Standby mode (Ethernet active): 1 W, 22 mA, 3.14 BTU, active waiting state: 12.5 W, 173 mA, 41 BTU, average power: 4 Ohm (audio signal, 1/3 power), 116 W, 395 BTU, maximum power: 4 Ohm (audio signal, peak), 384 W, 4.9 A, 1310 BTU
Cooling	convection cooled (without fans)
Dimensions (W × H × D)	216 × 45 × 343 mm (1 RU, 9,5")
Weight	2.2 kg
Optional accessories	rack mounting kit
Controls	Channel 1 Level, Chanel 2 Level, Power On/Off

DISPLAYS

Power (LED)	Blue (Lit = ON, flashing = Standby)
Clip CH1 & CH2 (LED)	Red
Signal CH1 & CH2 (LED)	Green

Manufacturer

Fohhn Audio AG

Model

MA-2.100

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