

Mosconi Gladen PRO 4/10 and 5/30 – power amps newcomers in Mosconi's recent PRO series

# Italian design



► Last year, Mosconi introduced a new series of amplifiers at top level - the PRO 5/30 being the first amp launched. Now there is a further family member in the form of the four-channel amplifier PRO 4/10.

After Mosconi caused a furor with the PRO 5/30 in 2017, activities for completing the PRO series are now underway. In addition to the five-channel, recently a four-channel version called PRO 4/10 has seen the light of the amplifier world. Furthermore, a mono amp is close to finalization. We already have the brand new 4/10 in our editorial department.

It is joined by a PRO 5/30 now. We had tested the latter already in issue 5/2017 - and very successfully in fact. To be sure, it was still a pre-production specimen, so that we can retrace the modifications here that have been incorporated in the series production from the very beginning. Both PRO amplifiers have the new family appearance with an aluminum

frame having rounded corners in silver and a black perforated plate insert. The second digit of the type designations stands for the housing size. The 30 in the five-channel version indicates the largest housing available, the 10 in the four-channel amp, on the other hand, stands for the smallest version. All connections and control elements are located on the front of the amplifiers. The controls and the bolt holes of the terminals can be concealed by a magnetic cover. This lends the PRO amplifiers a clean and elegant appearance;



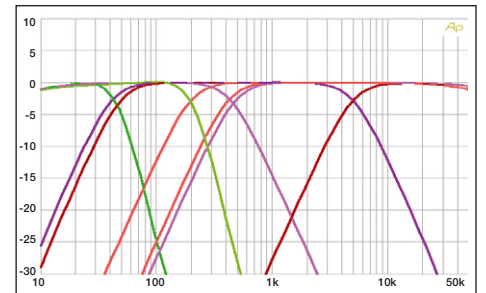
All the connections and control elements of the PRO power amps are located at the front edge. They can be hidden by means of the cover strips for clean installation

furthermore, the red fan propellers provide unobtrusive dashes of color. As usual with other Mosconi amplifier series, the PRO amps also rely on internal heat sinks cut from ribbed cast aluminum. Power components, such as the output transistors and the transistors and diodes of the power supply, are located here. The terminals for current and speakers are extremely sturdy, they also accommodate heavy gauge wires safely. The integrated terminal for the mini ANL fuse is of equally high quality. The boards of both amplifiers are very neatly equipped, all channels except for the bass channel of the 5/30 are classically analog class A/B circuits. Because of its immense power, the large 5/30 has a very sizeable power transformer of the dimensions of a child's fist. In the 4/10, however, the power supply appears much more fragile. One should not be fooled by that; Mosconi have repeatedly proven that they can build power supplies with much greater potential than you would expect at first glance. For example, in the case of the PRO amplifiers, full-blown controller chips indicate that the power supplies contain sophisticated circuitry for control and regulation. The power supplies are fit for start-stop operation, but not voltage-controlled. This means that more power is sent to the speakers when the supply voltage is higher. Since Mosconi's power figures refer to an input voltage of 14.4 volts (as is common in the US), while we measure with „traditional“ 13.8 volts, we should not be surprised if the performance values determined by us are slightly below the manufacturer's specifications – that's normal physics. The four-channel 4/10 is designed to be regular, which means we find four equal amplifier channels with two output transistors each. In the 5/30, however, we have an asymmetric 3-in-1 design. The first stereo channel pair is similar to the 4/10, the second stereo pair equipped with a double transistor is designed to be more powerful, and channel 5 is a class D circuit for subwoofers.

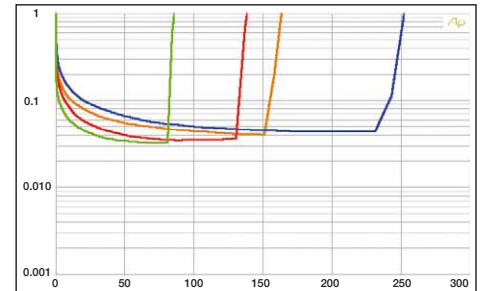
Our PRO 4/10 puts in an outstanding performance in the measuring lab. Already at 4 ohms, 110 watts are applied per channel; at 2 ohms, there are even 175. The PRO 4/10 thus effortlessly drives even demanding components. What is nice is that the distortion always remains low during this process. In addition, the 4/10 pleases because of its high dampening factors and (thanks to the „Direct DSP“ switch bypassing the entire signal processing) an extremely good signal-to-noise-ratio beyond 100 dB. The performance of our series five-channel model is also excellent. Even the small front channels push 85 W into 4 ohms; the stronger middle channels even master 162 W with merely a slight increase in distortions. And channel 5 with 558 W into 4 ohms and a full 851 into 2 ohms is among the most potent bass units in the five-channel amp sector altogether. If we compare the results with the pre-production test in issue 5/2017, especially the bass channel

has increased in power. On closer examination, however, our pre-production specimen already latently bore the full performance potential as a comparison of the diagrams shows. Mosconi have not so much increased the power performance for the series, instead they have lowered the distortion. While in the pre-production test we had complained about the slightly increased distortion

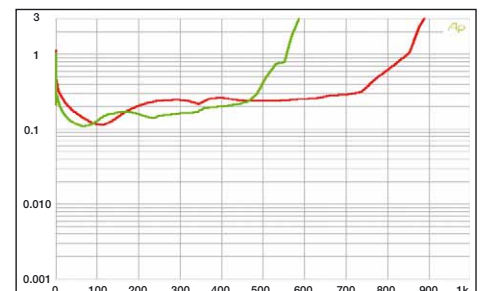
• **Mosconi Gladen PRO 5/30**



The PRO 5/30 controls the first pair of channels with high-pass, the second provides band-pass for lower midwoofers, the bass channel, low-pass for subwoofers

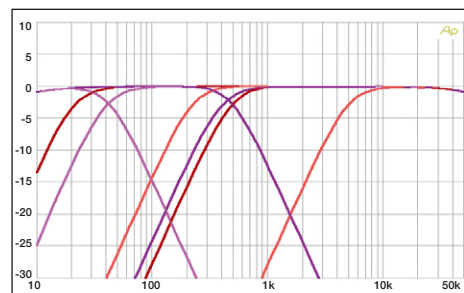


At channels 3/4 (orange and blue), there is increased power with only slightly elevated distortion. All four channels are working flawlessly

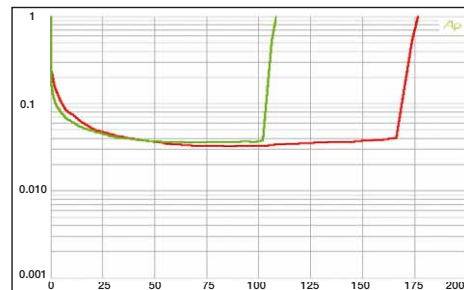


The bass channel renders a remarkable 560 or 850 watts. The distortions are low for such a powerful class D circuit and independent of the load

• **Mosconi Gladen PRO 4/10**



In the PRO 4/10, channels 1 and 2 are high-pass filterable up to 4.5 kHz, while channels 3 and 4 provide band-pass for woofers



All channels output clean class A/B power with a crisp 110 or 175 watts



The PRO 4/10 is clearly structured. The signal processing element is placed on vertical subsidiary boards, while power supply and amplification share the motherboard



of just under 1%, we must clearly praise the 5/30 series version: With a distortion of .1 - .2 %, the „new“ bass channel is even exemplary. This causes the power curve in the graph to slide down, and our THD limit of 1% for bass amps (.7% for full-range amps) is thus obviously reached at higher power levels. If one now converts the values by adapting to 14.4 volts (608/927 W at 4/2 ohms), this yields that the PRO 5/30 definitely does reach the manufacturer's target of 600 W into 4 ohms – and that also applies to all other channels in the test. Thus, no one can complain about a lack of power of the PRO amplifiers, even less if you connect the amplifiers to loudspeakers „in the wild“.

**Sound**

As already noted last year, the PRO amplifiers are among the most naturally and musically performing devices. They maintain the character of every peace of music and recording, and you even have the impression that the qualities of the pieces are lovingly refined. Even though the sound is perfectly detailed and superbly audible, the amplifiers are not prone to dissect it. Also, they provide just the right amount of warmth to meet our listening taste without sounding all too cuddly. Great sound walls are reproduced with impressive fullness, and rolls over the toms can certainly inspire with their power and vitality. In general, both PRO 4/10 and PRO 5/30 stand out due to their extremely dynamic music reproduction. Keystrokes and the sounds of string instruments are passed unfiltered to the listener, and drums, especially at higher listening volumes, bring an enthusiastic grin to his face. Nevertheless, the PRO-Amps never forget the big picture, the flow of music is always preserved nicely and the musical harmony created by the amplifiers is wonderful. This is an absolute high-end performance rendering the new Mosconis absolutely competitive.

**Conclusion**

With the PRO series, Mosconi throws in power amps that belong to the finest the market can offer. Of course, this is anything but cheap fun, but for lovers of extremely high-quality power amp technology, the Mosconi PROs are the number one choice.

Elmar Michels

**multi-channel amplifier**

	Mosconi Gladen PRO 4/10	Mosconi Gladen PRO 5/30
Distributor	Gladen Europe	Gladen Europe
Hotline	07127 810282-0	07127 810282-0
Internet www.	gladen.de	gladen.de
<b>Sound</b> 40 %	1,0	1,0
Bass 8 %	1,0	1,0
Neutrality 8 %	1,0	1,0
Transparency 8 %	1,0	1,0
Spatial imagin 8 %	1,0	1,0
Dynamics 8 %	1,0	1,0
<b>Lab</b> 35 %	1,6	0,7
Power 20 %	2,0	0,5
Damping factor 5 %	1,0	0,5
Signal-to-noise ratio 5 %	0,5	1,0
Noise 10 %	1,5	1,5
<b>Practice</b> 25 %	1,1	1,1
Features 15 %	1,0	1,0
Build quality electronics 5 %	1,0	1,0
Build quality mechanics 5 %	1,5	1,5

**Specifications**

	4	5
Channels	4	5
Power 4 Ohm	110	2 x 85 + 2 x 162 + 558
Power 2 Ohm	175	2 x 138 + 2 x 254 + 851
Power 1 Ohm	0	-
Bridged Power 4 Ohm	350	276 + 508
Bridged Power 2 Ohm	0	-
Sensitivity max. mV	370	410
Sensitivity min. V	13,0	<13,3
THD+N (<22 kHz) 5 W	0,064	0,066/0,116/0,241
THD+N (<22 kHz) Half Power	0,034	0,032/0,042/0,154
Signal-to-noise ratio dB(A)	103	105/101/47
Damping factor 20 Hz	249	320/560/80
Damping factor 80 Hz	264	344/558/80
Damping factor 400 Hz	235	320/559/80
Damping factor 1 kHz	235	320/559/80
Damping factor 8 kHz	149	180/214/80
Damping factor 16 kHz	83	86/98/80

**Features**

Low pass	45 – 500 (CH34) Hz	450 – 5k Hz (CH34)/ 45 – 200 Hz (CH5)
High pass	40 – 500/400 – 5k (CH12), 20 – 220 (CH34) Hz	40 – 500/400 – 5k Hz (CH12)/ 45-200 Hz (CH34)
Band pass	20 – 500 (CH34) Hz	45 – 5k Hz (CH34)
Bass boos	-	-
Subsonic filter	via HP (CH34)	-
Phase shift	-	-
High-level inputs	• (Adapter)	• (Adapter)
Separate gain control (Autosense)	• DC	• DC
RCA outputs	• (bei 2CH In)	-
Dimensions (L x W x H in mm)	235 x 204 x 55	498 x 204 x 55
Others	2 or 4CH In, Start-Stop	2 or 6CH In

**Ratings**

Price		570 Euro	1.100 Euro
Sound 40 %	1,0	1,0	1,0
Lab 35 %	1,6	1+	1,1
Practice 25 %	1,1	1,1	1,1
Preis/Leistung		very good	very good



<b>Absolute Top Class</b>	<b>Absolute Top Class</b>
Top Class	Top Class
Upper Class	Upper Class
Entry Level	Entry Level

Note

**1,2**

**1+**

„Very classy amp with spick and span technology and reference-worthy sound.“