



A modern amplifier equipped with a DSP signal processor, which enables precise sound properties equalization in buildings with very hard acoustic conditions. The amplifier activates only those microphones that are being used at the moment, which eliminates the influence of the surrounding sound coming out of unnecessarily opened microphone channels. The amplifier is equipped with an MP3 player with remote control, liturgical clock that switches presets according to pre-defined dates and times and in the "DE-ESSER" which eliminates sibilance during speech. Amplifier in AMWL-9DSP/400+100 version has got extra 100W power amplifier.

### Equipment of Amplifier with DSP processor:

- eight XLR programmable, symmetrical microphone or linear inputs with sensitivity, gain, soprano, and bass control, as well as overdrive signalling;
- choice of two recorded settings (preset for small or big amount of people in a building);
- Automatic reverb elimination;
- RCA (Cinch) universal input with gain, soprano and bass control;
- 10-point input parametric equalizer: - frequency control from 20 Hz to 20 kHz, - bandwidth control from 0,05 to 3 dB/oct. - band depth control from -12 dB to +12 dB;
- 4 symmetrical outputs 0 dB (1 x Jack + 3 x XLR): - Gain- control - Delay (from 0 to 85m), - 5-point parametric equalizer: (frequency control from 20 Hz to 20 kHz, bandwidth control from 0,05 to 3 dB/oct, band depth control from -12 dB to +12 dB);
- DE-ESSER
- MP3-Player USB SD
- Power terminal protection devices: temperature, anti-short-circuit, current, anti high frequency and limiter;
- can be made as a table type or built in a 19" rack cabinet

TECHNICAL DATA	AMWL-9DSP4D/400	AMWL-9DSP4D/400+200	AMWL-9DSP4D/600
Output power (sinus)	400W	400W + 200W	600W
Microphone and linear inputs, programmable, symmetrical and electronic	inputs XLR: 1-8	inputs XLR: 1-8	inputs XLR: 1-8
- MIC/LINE switch	yes	yes	yes
- MIC sensitivity control	-40dB -15dB	-40dB -15dB	-40dB -15dB
- LINE-sensitivity control	-15dB +5dB	-15dB +5dB	-15dB +5dB
- Impedance	1,6kΩ	1,6kΩ	1,6kΩ
- Phantom power	24V DC	24V DC	24V DC
- HPF-Filter	100 Hz, 6dB/oct.	100 Hz, 6dB/oct.	100 Hz, 6dB/oct.
- Adjustment: bass, soprano	±12dB, 100 Hz, 10 kHz, shelf filter	±12dB, 100 Hz, 10 kHz, shelf filter	±12dB, 100 Hz, 10 kHz, shelf filter
- Signaling	green diode - active channel red diode - clipping	green diode - active channel red diode - clipping	green diode - active channel red diode - clipping
Universal input (mono)	input RCA: 9	input RCA: 9	input RCA: 9
- input sensitivity	-10dB +12dB	-10dB +12dB	-10dB +12dB
- impedance	10kΩ	10kΩ	10kΩ
- adjustment: bass, soprano	±12dB, 100 Hz, 10 kHz, shelf filter	±12dB, 100 Hz, 10 kHz, shelf filter	±12dB, 100 Hz, 10 kHz, shelf filter
Limiter	double, peak, on DSP input and on power amplifier	double, peak, on DSP input and on power amplifier	double, peak, on DSP input and on power amplifier

TECHNICAL DATA	AMWL-9DSP4D/400	AMWL-9DSP4D/400+200	AMWL-9DSP4D/600
10-point parametric equalizer on DSP input	±12 dB, 0,05 3oct. 20Hz 21,2kHz	±12 dB, 0,05 3oct. 20Hz 21,2kHz	±12 dB, 0,05 3oct. 20Hz 21,2kHz
5-point parametric equalizer in 4 output channels	±12 dB, 0,05 3oct. 20Hz 21,2kHz	±12 dB, 0,05 3oct. 20Hz 21,2kHz	±12 dB, 0,05 3oct. 20Hz 21,2kHz
Acoustic feedback suppressor	adaptive, phase shifter	adaptive, phase shifter	adaptive, phase shifter
MP3 player	yes	yes	yes
MP3 player remote control	yes	yes	yes
Delay in 4 output channels	0 - 85 m	0 - 85 m	0 - 85 m
De-esser	800Hz - 8kHz 0dB - -20dB	800Hz - 8kHz 0dB - -20dB	800Hz - 8kHz 0dB - -20dB
Non-grounded symmetrical output	100V, 70V, 50V, 8Ω, 4Ω	100V, 70V, 50V, 8Ω, 4Ω	100V, 70V, 50V, 8Ω, 4Ω
Loudspeaker-zone	6-step 0-100V	6-step 0-100V	6-step 0-100V
Frequency range	40 - 22 000 Hz	40 - 22 000 Hz	40 - 22 000 Hz
Harmonic distortions	< 0,1%	< 0,1%	< 0,1%
Work temperature	from -5°C to +40°C	from -5°C to +40°C	from -5°C to +40°C
Dimensions width/height/depth [mm]	443 x 135 x 340	443 x 135 x 340	443 x 135 x 340
Dimensions with rack adapters width/height/depth [mm]	483 x 135 x 340	483 x 135 x 340	483 x 135 x 340
Weight [kg]	13,5	14	15,2