

Processor

S P W X

Dynamic speaker processor

4 channel (switchable to 3-channel + sub)
Dedicated to DX12 and DX15

Features

Switchable for models DX12 / DX15
Equalization switchable for floor or stand monitoring
Hard bypass function by pairs
Clarity control (Hi shelf)
Signal presence LED

Applications

Floor monitoring
Side fill monitoring
Drum fill with sub

Specifications

Nominal input level +4dBu
Harmonic distortion <0.01% (+4 dBu, 1 kHz)
Output maximum level +21dBu

Inputs / Outputs

Normal mode: 4 mono channels
Sub mode:
- 2 mono channels
- 1 channel with subwoofer

Hard bypass function operating by pairs

The APG SPWX processor is specifically dedicated to process the signal transmitted to the DX15 and/or DX12 loudspeakers. They integrate a set of electronic functions, allowing to optimize the frequency response, and the subsonic protection of the loudspeakers.

The SPWX controls either a set of 4 individual monitors or 2 individual ones (Ch. 1 & 2) and another monitor with a subwoofer (Ch. 3 & 4). In that case, the subwoofer signalled, delivered by Output 3, is derived from Input 4 and filtered accordingly.

Each pair of channels (1/2 & 3/4) can be put in bypass, which inhibits and isolates the processor from the amps.

Each channel has a switch that allows the selection of DX12 or DX15.

Each channel includes a resonating high-pass filter, a low-pass filter, a shelving filter, and a 3-stage parametric equalizer. The "sub" line integrates a resonant high-pass filter, a 4th order Linkwitz Riley low-pass filter (24 dB/octave) and three active protection cells. In "Sub" mode, outputs 3 & 4 are filtered according to a 4th order Linkwitz-Riley function (24dB/oct).

Each channel has a signal presence LED illuminating when the output signal is superior to -10 dBu.

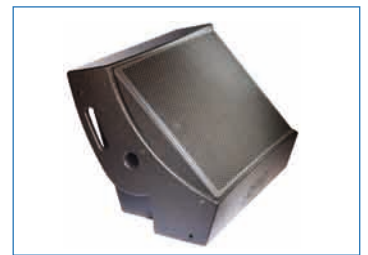
In sub mode, filtering of channel 3 is optimized for SUB138P and SUB238S model.



Analog processor SPWX



DX12 Speaker



DX15 Speaker

The SPWX processor is designed to optimize the operation of the DX12 and DX15 speakers in stage monitoring applications. It facilitates the use, on the same stage, of a combination of DX12 and DX15's, used in floor or stand-mounted configuration, or coupled with subwoofers for drum-fill applications.

Although specifically designed for stage monitoring, it is also versatile, particularly for hire companies: thanks to the hard bypass function, an amp rack equipped with an SPWX will be readily usable with other speakers without need for modifying its internal wiring.

Each channel offers the choice of switching to a DX12 or DX15 curve. For each speaker, it is possible to select a "floor" equalization or a "side-fill" type, the speaker being stand-mounted or stacked on a subwoofer. A shelving control modifies the clarity index in order to compensate for the parameters of the acoustic environment and coupling effects. the LF cut-off is set at 50 Hz for the DX15 and 60 Hz for the DX12.

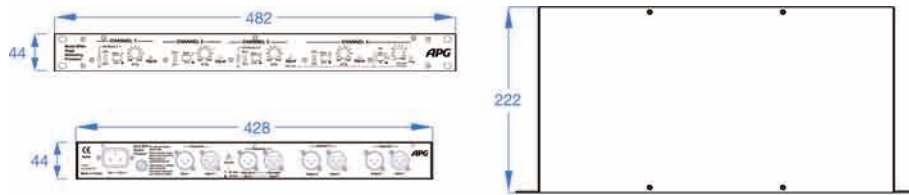
On channels 3 and 4, a switch allows the operation of a subwoofer for drum-fill applications. Output 3 becomes the subwoofer output in addition to channel 4 inputs and outputs.

The cross-over frequency between the subwoofer and its relevant speaker is 100 Hz.

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Processor SPWX

Technical Specifications



Technical Specifications

Inputs	4 channels
Impedance	18 kOhm balanced
Nominal Input	Level +4 dBu
Outputs	4 channels (output 3 usable as sub)
Impedance	60 Ohm balanced
Maximum	Output Level +21 dBu
THD	< 0.01% (+4 dBu, 1 kHz)
Signal presence LED	Threshold -20 dBu

Connector

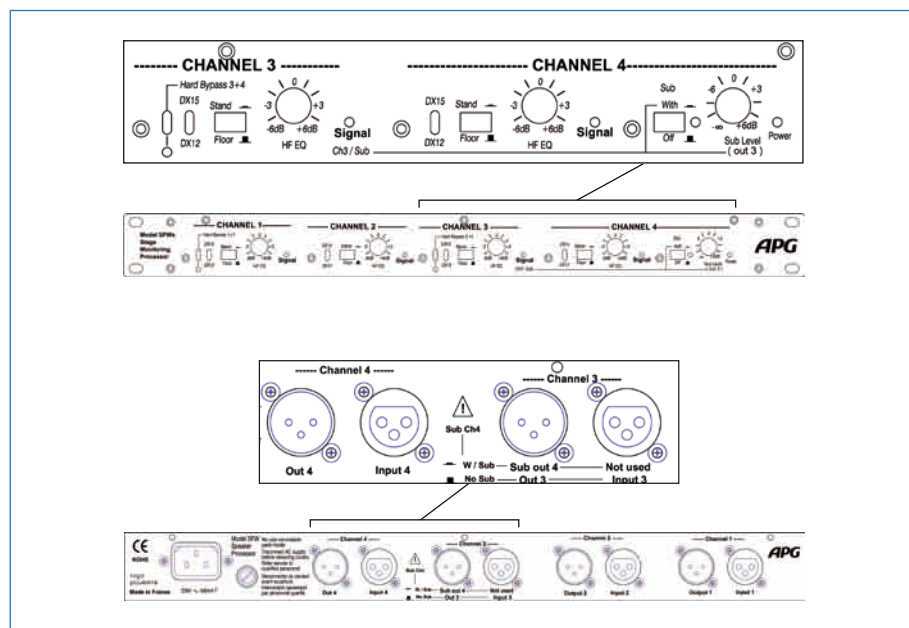
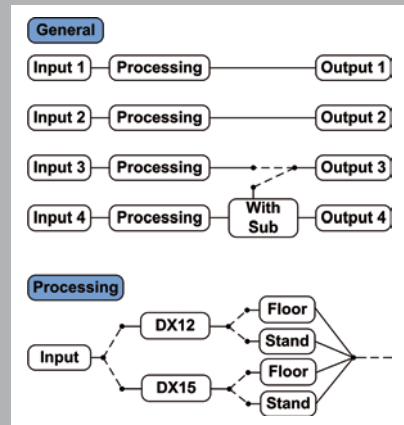
Audio Input	XLR-female 3 pins
Audio Output	XLR-male 3 pins
Power socket	IEC 3 pins

General Specifications

Power consumption	220/240 VAC 15VA
Dimensions (H, W, D)	1.75" x 19" x 8.7" (44 x 482 x 222 mm)
Weight	9.9 lb (4.5 kg)

Crossover frequency between speakers and subwoofers

Speakers	Crossover frequency
DX12	110 Hz 24dB/octave
DX15	110 Hz 24dB/octave



5 YEARS WARRANTY *A five years warranty covers passive filters, transducers and compression drivers. The warranty does not cover cosmetic damages and damages due to misuse, improper installation, or damages caused by alterations.

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