

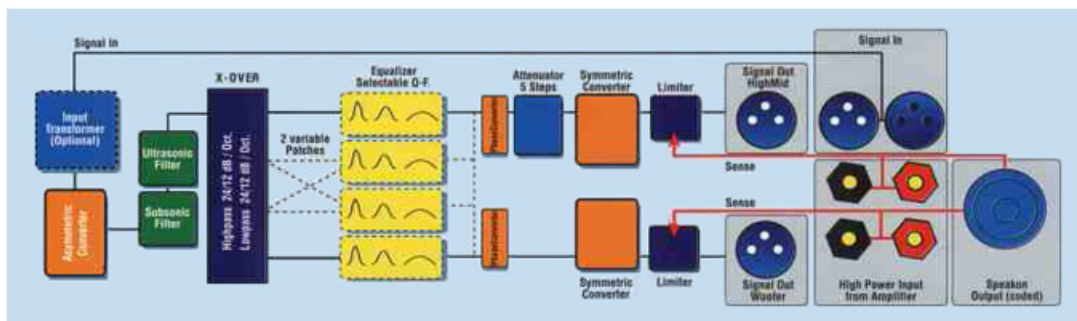
SP2 / 2-way, stereo universal switch controller

The SP2 system panel is used actively as link between loudspeaker systems and amplifier output stages. It combines the function of a complex 2-Way active crossover, a system controller and patch bay into 19" housings with only 1HE. Due to the adjustment possibilities the device is suitable also for the integration of already existing PA systems.



Product Specification:

Signal To Noise Ration (Gain 6dB)	> 103 dB (incl. EQ)
Total Harmonic Distortion (Gain 6dB)	< 0,04 %
Max. Gain	22 dBu
Subsonic / Ultrasonicfilter	-3 dB Punkte bei 25 Hz und 18 kHz / -12 dB / Oct.
Output Impedance	50 Ohm
Input Impedance	40 kOhm
Power Supply	230 Volt / 10 VA (incl. EQ)
Dimensions	428 x 44 x 23 cm



Mode of operation of the SP2 in the block diagram

Cross Over Function:

Input and output symmetriert electronically (with trafo option). Circuit in the dead status. Linkwitz Riley characteristic, edge steepness per frequency band individually adjustable, independent adjustment of the high-pass and low-pass frequency. HiMid way fullrange adjustably, in the level lowerable in five 2dB steps, Mono bass function, Subsonicfilter and Ultrasonicfilter. Low-pass with adjustable Timedelay, high-pass limitable.

Equalization Function:

As addition option a EQ circuit board can be re-tooled. Eight EQs, free allocation to the individual passes of the switch (max. 3 per pass). Filter quality in three levels (peak, normal, shelf).

Limiting Function:

Four Limiter controlled over sense lines (are not situated in the signal path). Adjustable Attack/Release time. Over DIP Switches adjustable max. performance at the loudspeaker systems. LED display for signal Present, -20dB and Limiter actively.

Patch Bay Function:

On the front side 2 x pass-through XLR connectors and 2 x XLR link connectors are for grinding through the signals and two coded Speakon connectors for the link of the loudspeakers. On the rear side are the Channel A and Channel B subwoofer and HiMid signal out connectors for the amplifiers. Also the power input wires from the amplifiers (Channel A/B subwoofer and Hi/Mid), which are subsequently connected to the front mounted coded SpeakOn connectors.