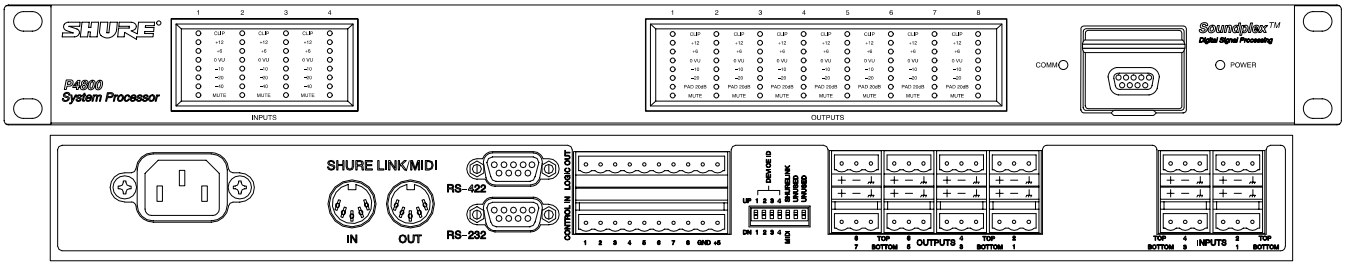
SHURE

Specification Sheet

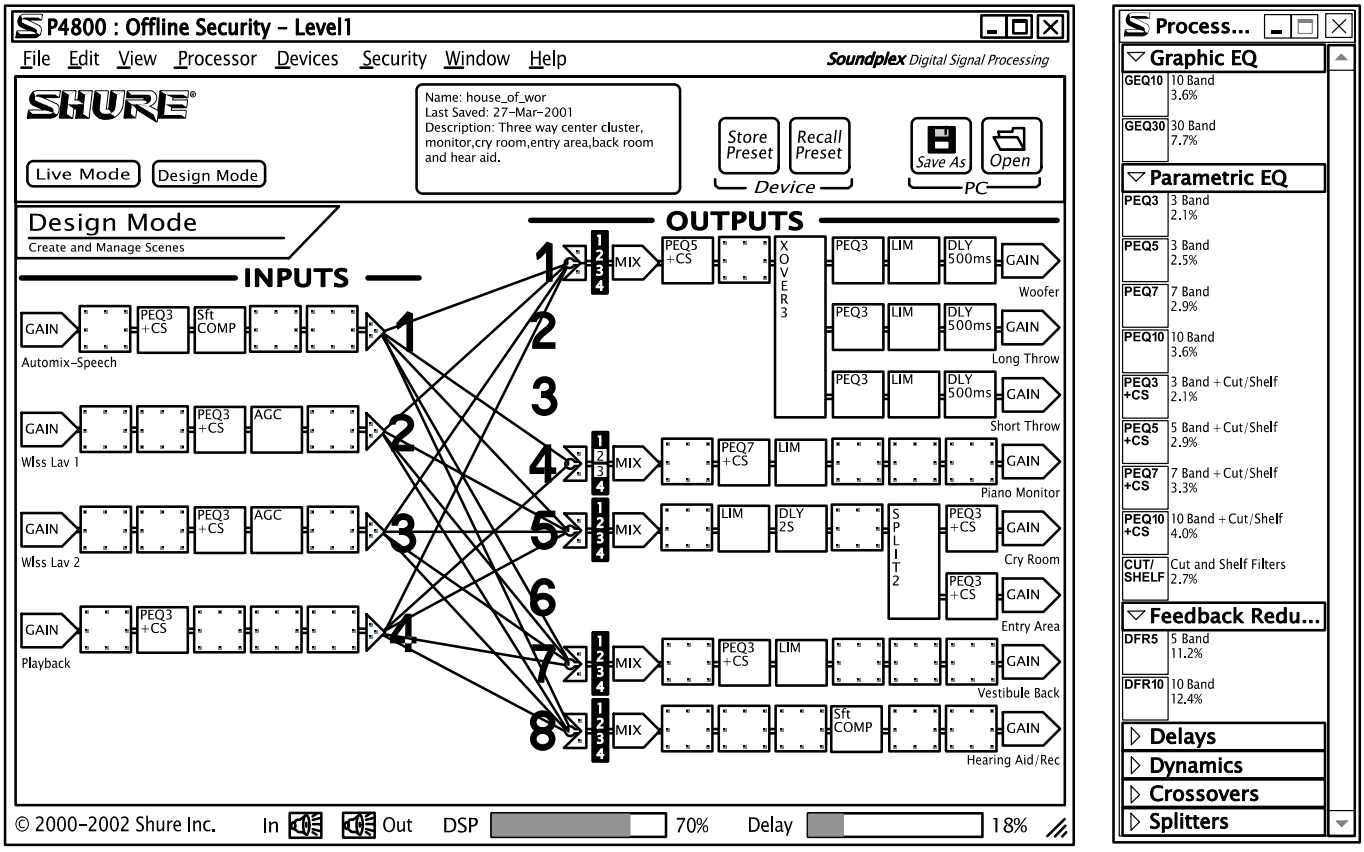
P4800 SYSTEM PROCESSOR

DESCRIPTION

The P4800 System Processor is a 4–input, 8–output digital audio processor. It performs all the necessary functions between the mixers and the power amplifiers in small to medium sized sound systems. Using the P4800's drag–and–drop Graphical User Interface, processors can be placed anywhere in the signal path. The 4–by–8 matrix mixer allows any or all inputs to be routed to any or all outputs with additional controls for levels and polarity. The P4800 can store up to 128 configurations that can be recalled using simple contact closures, MIDI, or RS232 commands.



SOFTWARE FEATURES



The primary interface for the P4800 is a Windows–based software program that mimics the functional block diagrams used in sound system design. Unlike many other DSP products that constrict design freedom with preset templates, the processing blocks in the P4800 can be applied in any order, to any input or output. Processing blocks can be copied and pasted to duplicate processors across multiple channels. They can also be linked for more efficient stereo or global control.

With the P4800, the entire system can be designed, saved to disk, and loaded at the job site for easy set up. The P4800 also allows real–time design changes, so processing blocks can be added, removed or changed during system tuning. The security options allow complete lock of the system to prevent undesired tampering, or to restrict user access to certain parts of the system.

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SPECIFICATIONS

Frequency Response
20 Hz to 20 kHz +1, –3 dB
Dynamic Range
100 dB minimum, A-weighted, 20 Hz to 20 kHz
Sampling Rate
48 kHz
Digital Signal Processing
32-bit floating–point resolution
Polarity
Input to Output: non–inverting (inverting optional)
Impedance
Input: 10 kΩ
Output: 120 Ω
Input Clipping Level
+26dBu minimum
Output Clipping Level
+22 dBu minimum
+2 dBu minimum with 20 dB pad engaged
Total Harmonic Distortion
< 0.05% at 1kHz, +4 dBu, 20 Hz to 20 kHz
Propagation Delay from Input to Output
<1.5 ms (Processing blocks add no latency.)
Polarity
Input to output: non-inverting (inverting optional)
Analog Audio Inputs
4 line level analog inputs, block connectors
Operation level defaults to +4 dBu, software switchable to –10dBv
24–bit, 48 kHz A to D converison
+26 dBu input clipping level @ 1% THD
Analog Audio Outputs
8 line level analog outputs, block connectors
Operation level defaults to +4 dBu, software switchable to –10dBv
24–bit, 48 kHz D to A converison
+22 dBu output clipping level @ 1% THD (+2 dBu with 20 dB pad)
Control Pins
Voltage Supply: 5 Vdc, 100 mA (total)
Logic output current sinking ability: 500 mA
Operating Voltage
100–240 Vac, 50/60 Hz (auto-switching)
Maximum Power Drain
60W
Temperature Range
Operating: –5° to 35° C (23° to 95° F)
Storage: –29° to 74° C (–20° to 165° F)
Dimensions
19 in x 11 in x 1 $^{3}/_{4}$ in
Weight
4.1 kg (9.0 lbs)
Packaged Shipping Weight
6.0 kg (13.2 lbs)

Furnished Accessories

Power Cable (P4800) 95A8389
Power Cable (P4800E) 95A8247
5-pin DIN Shure Link Cable 95A8676
Hardware Kit 90AB8100
12 Block Connector Terminals, 3-pin (for audio inputs and outputs)
2 Block Connector Terminals, 10-pin (for control inputs and outputs)
4 Rackmount Screws and Washers

Optional Accessories

DRS10—Wallplate unit with 10-position rotary switch for preset control

SHURE

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