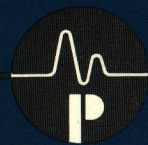


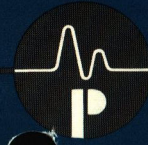
LSM-10

LINE SELECTOR MODULE



PACIFIC RECORDERS & ENGINEERING CORPORATION
2070 Las Palmas Drive - Carlsbad, CA 92008 - 619-438-3911 - Telex: 181777

Call toll-free 800-874-2172 for technical information and quotation.
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THE LSM-10 LINE SELECTOR MODULE

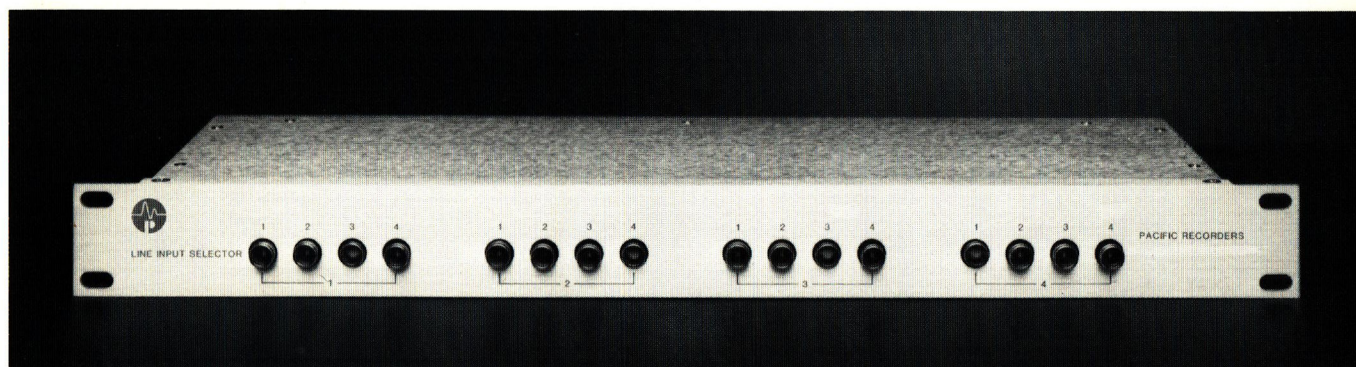
FEATURES: ■ 10 SELECTABLE STEREO INPUTS ■ MAIN AND AUXILIARY OUTPUTS PLUS 3 RECORDING OUTPUTS ■ STEREO GAIN RANGE CONTROLS ■ SELECTABLE INPUT/OUTPUT METERING ■ SELECTABLE MONITORING OF MAIN OUTPUT AND 3 TAPE RETURNS ■ INDEPENDENT MONITOR WITH LEVEL CONTROL ■ RECORD/PLAY-BACK FEEDBACK LOCKOUT

The LSM-10 Line Selector Module allows production, newsroom and recording personnel to select any of 10 line-level signal sources (including three tape machines) for monitoring, metering and recording. This stereo unit is based upon a program amplifier preceded by a source-selector switch, to which monitoring and metering circuitry has been added. The program amplifier output is routed to a series of connectors on the rear of the unit: a main output, an auxiliary output and a set of outputs to three tape recorders. The source-selector switch is configured so that when a tape machine is selected as the source, the output line to that tape recorder is interrupted, preventing the possibility of feedback. The program amplifier has a front-panel gain-trim control.

The monitoring amplifier, with headphone-driving capability, allows monitoring of the output of any of the three tape machines or of the program amplifier, all independent of the source-selector switch. The monitoring amplifier gain is adjustable with a front-panel level control. Its output appears at the front-panel head-phone jack which is normalled-through to a rear-panel connector, for possible application to an external power amplifier.

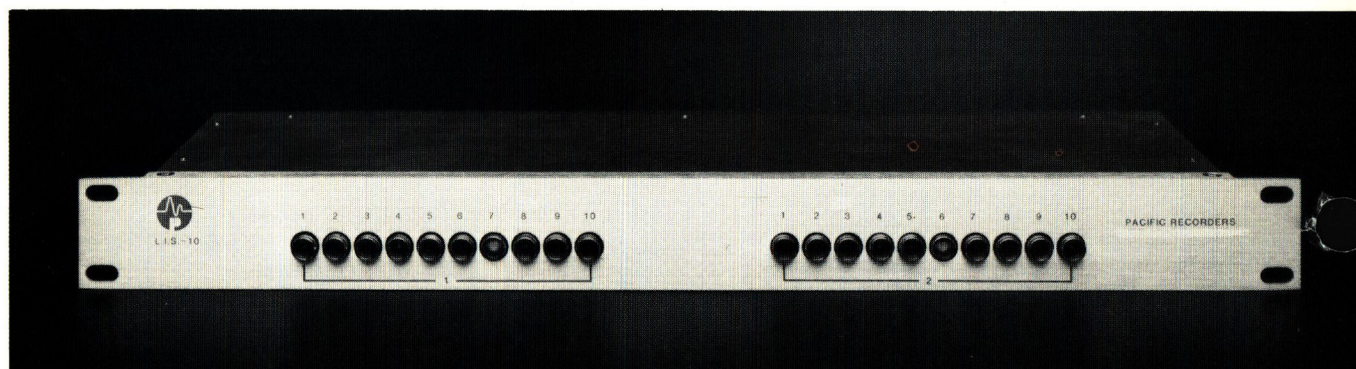
The VU meters are driven by buffer amplifiers and are front-panel switchable to allow level measurement of either the selected source or the program amplifier output.

LS-4 and LS-10 LINE SWITCHERS



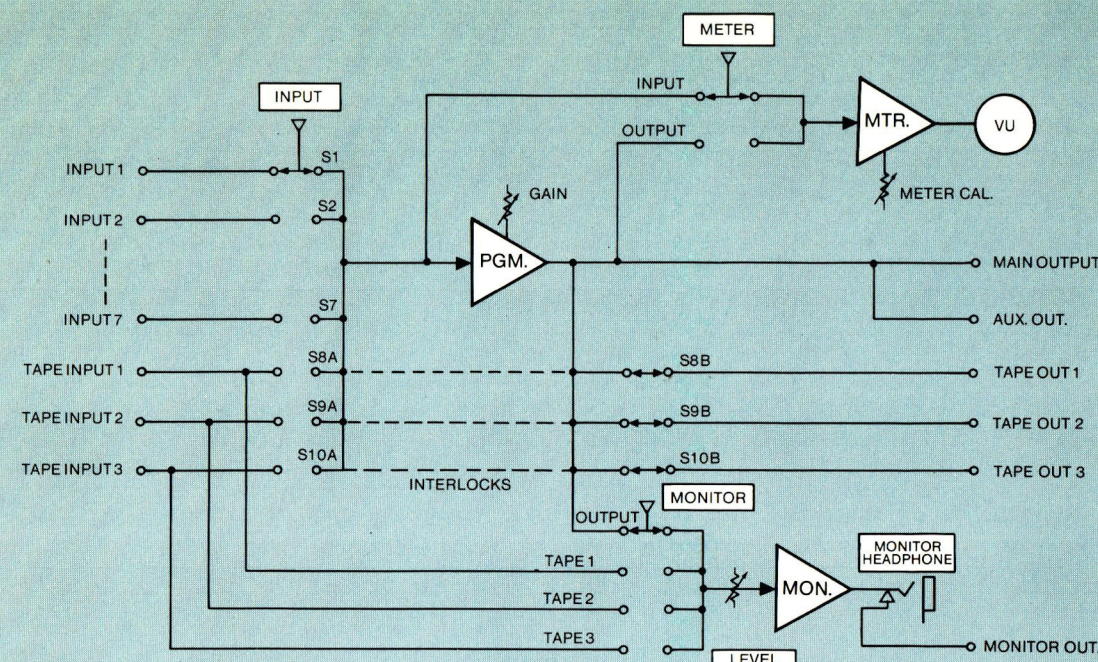
LS-4

Also available are two passive switching systems. The LS-4 is a set of four 4-input by 1-output stereo switches. The inputs are all isolated; a total of sixteen inputs can be accommodated. The LS-10 is a pair of 10-input by 1-output stereo switches. The inputs are connected in parallel on the LS-10.



LS-10

LSM-10 Functional Block Diagram



- NOTES:**
1. Left Channel only is shown.
 2. **PANEL** Control
 3. Power supply not shown
 4. When a Tape Input is chosen, the corresponding Tape Output Line is opened

LSM-10 TECHNICAL SPECIFICATIONS

Nominal Input Signal Levels: +4 to +8 dBu; see notes

Gain Adjustment & Range: -2 to +24 dB

Source Impedance: 600 ohms or less, balanced or unbalanced

Input Impedance: Program amplifier: 50K ohms line-to-line, balanced, instrumentation input amplifiers
Monitor Amplifier: as above
Metering Amplifier: 60K ohms

Common-mode Rejection: Program Amplifier: better than 50 dB, 20 Hz to 20 kHz (60 dB typical)
Monitor Amplifier: better than 40 dB, 20 Hz to 20 kHz (55 dB typical)

Output Level: Program Amplifier: +8 dBu nominal; clip point is +29 dBm into 600 ohm load
Monitor Amplifier: +8 dBu nominal; clip point is +21 dBm into 600 ohm load

Output Source Impedance: Program Amplifier: Less than 100 ohms, balanced, floating, transformer-coupled
Monitor Amplifier: Less than 40 ohms unbalanced

Output Load Impedance: 600 ohms or greater

Frequency Response: +0, -0.6 dB, 20 Hz to 20 kHz

Signal to Noise Ratio: Better than 90 dB with +8 dBu test tone, 20 Hz to 30 kHz bandwidth

Harmonic Distortion: Program Amplifier: better than 0.01% at +29 dBm into 600 ohm load, 1 kHz; better than 0.03% at +29 dBm into 600 ohm load, 50 Hz to 20 kHz;
Monitor Amplifier: less than 0.01% at +21 dBm into 600 ohm load, 20 Hz to 20 kHz

Intermodulation Distortion: Less than 0.005%, +8 to +29 dBm into 600 ohm load, SMPTE (60/7000 Hz)

Crosstalk: Better than 85 dB, 20 Hz to 20 kHz

Power Requirements: 120 VAC, 50/60 Hz, 10 watts

Size: 19" wide, 3.5" high, 10" deep

Weight: 10 pounds; 20 pounds domestic shipping

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Notes:

1. These specifications are subject to change without prior notice.
2. 0 dBu corresponds to an amplitude of 0.775 V RMS regardless of impedance. It is the same as 0 dBm if the impedance of the circuit under discussion is 600 ohms. It may be considered 0 dBm (enabling convenient measurement with meters calibrated for a 600 ohm circuit) if the circuit impedance is simply disregarded.
3. The program amplifier and metering amplifiers in the LSM-10 have adjustable gain, enabling operations on either +4 dBu or +8 dBu systems.