MODEL TAL-320

AM Audio Limiter



Bulletin 269

He's been our hero for a long time, that father of modern innovation, Benjamin Franklin. Through his example and Moseley's dedication to broadcasting, we've built a reputation for being first in the industry. Moseley finds itself in the forefront once again with a line of audio processing equipment, engineered with the quality today's listeners demand.

The Model TAL-320 AM Audio Limiter brings AM broadcast sound to the quality level it deserves by providing the broadcaster with a means of cleanly maximizing the modulation of a standard AM broadcast transmitter. An efficient multi-stage second-order allpass network handles asymmetric program material without the problems encountered in competitive designs. Switch-defeatable output lowpass filtering assures operation within the assigned channel. The transformerless output stage is direct-coupled for preservation of the output waveform. The TAL-320 incorporates low-noise and FET-input operational amplifiers as well as distortion-reducing circuitry. Service loops allow inspection without extender cards. AM stereo operation is a primary benefit easily accommodated by two Model TAL-320 Audio Limiters, single line strapping between units and 3rd unit specifically designed on the basis of the formally approved (FCC) transmission system.

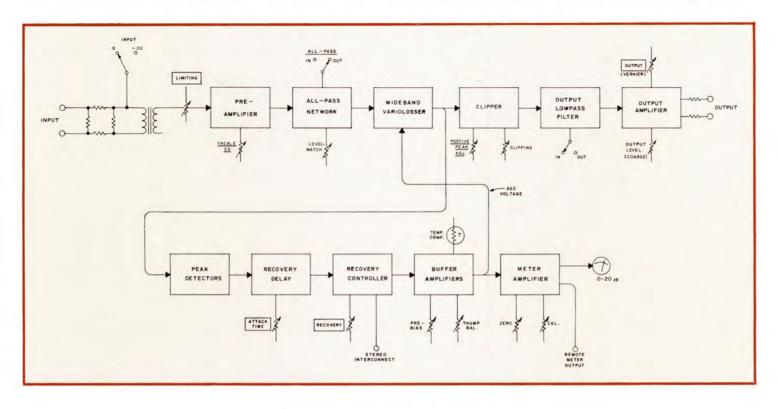
With the advent of AM stereo, the TAL-320 is a must.

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MOSELEY ASSOCIATES, INC.

TAL-320 AM Audio Limiter



SPECIFICATIONS

-26 dBm for limiting threshold with limiting control at max.; switchable 20 dB input pad
600 ohms $\pm 10\%$, resistive, balanced, floating
Adjustable up to +18 dBm
600 ohms, balanced, transformerless
Greater than 30 dB
Monolithic semiconductor array
Greater than 601 in dB (30 dB input variation yields 0.5 dB output variation)
Continuously adjustable, 0.2 to 3 milliseconds Instantaneous
100 milliseconds (transients) to 5 seconds (sustained signal), adjustable and program-controlled
Adjustable 100% to 130%; limiting and clipping thresholds track
Three-stage second-order allpass network optimized for male voice; switch-defeatable
$\pm 1 dB, 30~Hz$ to 15 kHz with equalizer set to flat, output lowpass filter switched out

Less than 0.2% below threshold of limiting; less Harmonic Distortion than 0.7% at any frequency (50 Hz to 15 kHz) and any degree of limiting (0 to 20 dB) with any combination of attack and recovery times Less than 0.3% below threshold of limiting; less Intermodulation Distortion than 1% at any degree of limiting (0 to 20 dB) using 60 Hz and 7 kHz 4:1, with any combination of attack and recovery times Better than 70 dB, 20 Hz to 20 kHz, output Signal to Noise Ratio lowpass filter in Critically damped movement calibrated (0 to 20 Metering dB) panel meter; external output for connection to remote control system **Output Filtering** Non-overshooting fifth-order lowpass; switchdefeatable Continuously adjustable treble boost Program Equalizer -20 to +70° C Temperature Range **Power Requirements** 120/240 VAC, 50/60 Hz, 10 W 4.5 CM H X 48.4 CM W X 33 CM D (1.75" H) X (19" W) Size X (13" D) Weight (Approx.) 3.6 Kg (8 lbs) net 4.5 Kg (10 lbs) shipping

Contact any Moseley Associates Sales Representative for further details

Specifications subject to change without notice.



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