

Take a few minutes
to find out about a
Delay Limiter by Allen
and Heath.

AH

The Broadcast Feed Forward Delay Limiter

This product, in the most accurate meaning of the word, is unique. For the first time there's a piece of equipment on the market that makes it impossible for a transient peak to pass through the unit.

Here's how it works. The unit includes in its design a revolutionary bucket brigade integrated circuit.

This delays the main signal path by approximately one milli-second and allows gain reduction to be fed forward in advance of the main programme. It can be used as a safety measure wherever high powered equipment is being used.

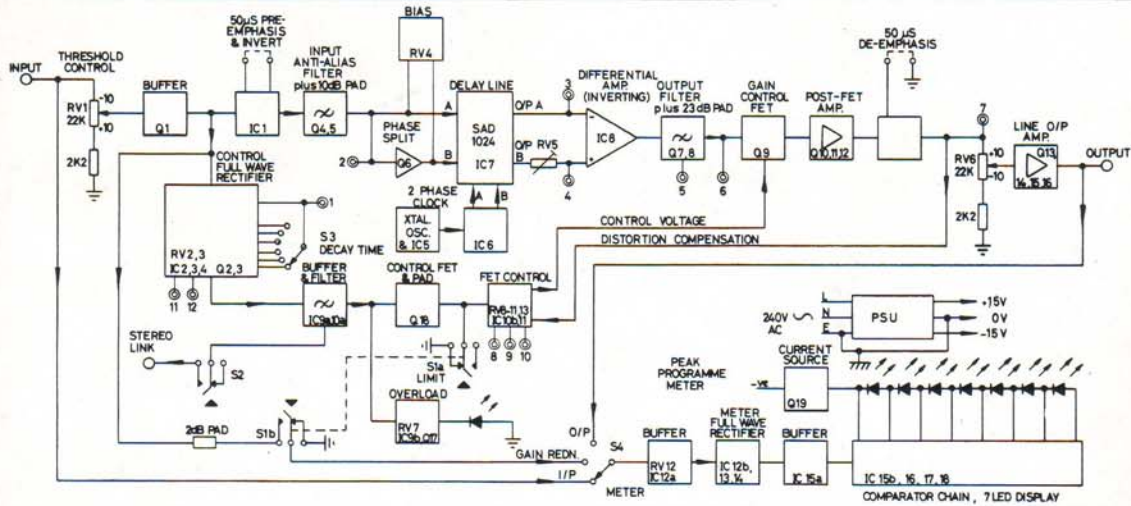
In P.A. systems, for example, to protect the speaker. Or with broadcast transmitters, where it'll put an end to worries of over-driving.



It can also be used in studios, for those obstinate transients from pianos, harpsichords, percussion and vocals, etc. Its operation is non audible so you can be sure of a crisp, clean, sound quality.

Use it to drive reverberation systems prone to pinging. By eliminating transients, low cost spring reverberation systems can be used where before they were unacceptable.





Block Diagram

Specifications:-

Controls:
 Limiter in/out.
 Gain make up input.
 Gain make up output.
 Delay variable from 3 seconds to 100 milli-seconds.
 Auto stereo link in/out.
 LED PPM meter monitors. Input Output
 Gain Reduction.
 50 microsecond pre/de emphasis

Technical Specifications:-

There is a seven point LED array which tracks with the three monitor select buttons. It corresponds to the PPM 1 to 7 scale and has true PPM characteristics. Input level nominally 0dBm.

Impedance: 10K ohms (optional 600 ohms balanced) output impedance to drive down a 600 ohms impedance (optional 600 ohms balanced).
 Output level 0dBm nominally +22dBm - maximum output. By use of the input level control the limiter threshold may be varied from -10 to +10 and the output level control from -20 to +10.

Maximum gain reduction available 20dB from threshold. Ratio is infinite; noise -70dBm below 0dBm.

Frequency response 20Hz to 20kHz +0 to -3dB distortion less than .5% under all normal conditions; attack time 500 micro-seconds negative.

Stereo linkable, via jack socket on back panel, standard tracking within 1dB.

Connections - cannons on inputs and outputs.

Mechanical Construction:

Available as a 19 inch by 1¾ inch rack mounted unit or a shelf mounted unit

N.B. The Company reserves the right to alter design specification without notification.



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