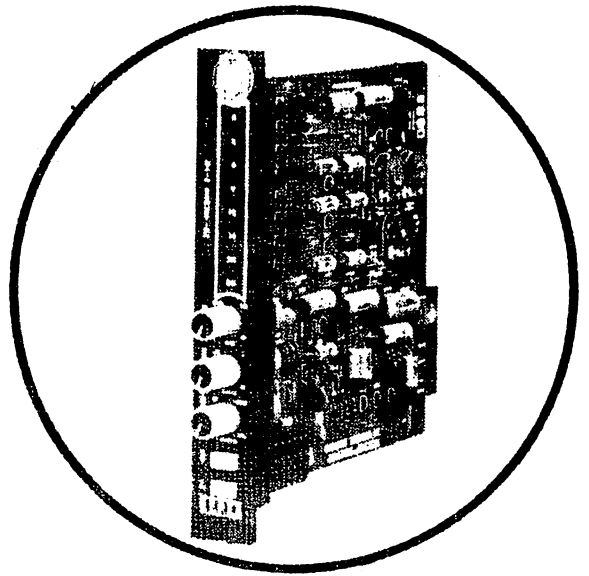


KEPEX™

Model 500



IN TODAY'S MULTITRACK STUDIO, NOISE MEANS MORE THAN THE TAPE HISS AND HUM, PRINT-THROUGH, INTERTRACK LEAKAGE (THROUGH INSUFFICIENT INSTRUMENT ISOLATION, OR A LEAKY BOARD, OR WHATEVER), AIR CONDITIONER RUMBLE, OUTSIDE TRAFFIC NOISE, OR ANY OTHER LOW LEVEL INTERFERENCE WITH PURE VIRGIN SIGNAL CAN BE REDUCED OR ELIMINATED WITH KEPEX. TRY IT TO DRY UP A REVERBERANT ROOM. FILM SOUND OPERATIONS USE KEPEX TO DISAPPEAR UNBLIMPED CAMERAS AND PASSING AIRPLANES. TV STATIONS USE KEPEX TO AUTOMATICALLY KILL UNUSED OPEN MIKES. RADIO STATIONS FIND KEPEX A HANDY TOOL IN THEIR PRODUCTION ROOMS.

KEPEX IS A WIDE BAND, LOW DISTORTION GAIN EXPANDER THAT CAN BE ADJUSTED TO ABSORB THE LOW LEVEL NOISES THAT YOU DECIDE ARE OBJECTIONABLE. INPUT SIGNALS GREATER THAN THRESHOLD LEVEL WILL RAISE THE GAIN OF KEPEX TO 0 DB (UNITY GAIN), AND SIGNALS BELOW THRESHOLD (THE SIGNALS THAT YOU DECIDE ARE "NOISE") WILL BE ATTENUATED BY THE AMOUNT SET ON THE RANGE CONTROL (UP TO 60 DB ATTENUATION). RELEASE TIME (TIME FOR GAIN TO DECREASE AFTER REMOVAL OF INPUT SIGNAL GREATER THAN THRESHOLD) IS ADJUSTABLE FROM 50 MILLISECONDS TO 6 SECONDS.

GAIN IS NORMALLY CONTROLLED AS A FUNCTION OF THE LEVEL OF THE INPUT SIGNAL, BUT AN EXTERIOR KEY INPUT IS PROVIDED WHICH CAN CONTROL THE GAIN WITH A SECOND INDEPENDENT AUDIO SIGNAL. THIS FEATURE ALLOWS SOME FAR OUT CONTROL FOR CREATING STEREO EFFECTS AND ELECTRONIC MUSIC SYNTHESIS.

PLUS, A UNIQUE GAIN REDUCTION METER PROVIDES INSTANTANEOUS VISUAL MONITORING OF WHAT KEPEX IS DOING.

THE KEPEX 500 IS A PRINTED CIRCUIT MODULE AND IS DESIGNED FOR MOUNTING IN EITHER THE CM-001 SINGLE CHANNEL CASE OR THE RM-160 MULTI-TRACK RACK MOUNTING CASE.

SPECIFICATIONS

ATTACK TIME - (TIME REQUIRED FOR GAIN TO INCREASE FROM -60 dB TO -1 dB AFTER THE APPLICATION OF A CONTROL SIGNAL WHOSE LEVEL EXCEEDS THRESHOLD) LESS THAN 20 MICROSECONDS.

RELEASE TIME - (TIME REQUIRED FOR GAIN TO DECREASE BY 30 dB AFTER REMOVAL OF A CONTROL SIGNAL) VARIABLE FROM 50 MILLISECONDS TO 6 SECONDS.

ACTIVE EXPANSION RA - 2:1 FROM 0 dB to 15 dB EXPANSION, INCREASING TO 4:1 AT 60 dB EXPANSION.

THRESHOLD OF EXPANSION - (MAGNITUDE OF CONTROL SIGNAL IN dBm REQUIRED TO CAUSE KEPEX TO REACH UNITY GAIN) VARIABLE FROM -35 dBm to +20 dBm.

INSERTION LOSS - 0 dB, INTERNAL ADJUSTMENT PROVIDES UP TO 20 dB GAIN.

FREQUENCY RESPONSE - ± 1 dB, 20 Hz to 40 KHz.

DISTORTION - LESS THAN 0.5% THD UNDER NORMAL OPERATING CONDITIONS. (MEASURED DISTORTION MAY EXCEED THIS FIGURE IF VERY SHORT RELEASE TIMES ARE USED. THE DESIGN ALLOWS OPERATION IN THIS REGION IN ORDER TO TAKE ADVANTAGE OF THE SPECIAL EFFECTS PRODUCED BY SUCH OPERATION.)

SIGNAL TO NOISE RATIO - MINIMUM 85 dB BELOW RATED OUTPUT.

INPUT IMPEDANCE - 3,000 OHMS IN NORMAL EXPANSION MODE.

OUTPUT IMPEDANCE - 600 OHMS (EMITTER FOLLOWER)

MAXIMUM INPUT AND OUTPUT LEVELS - +17 dBm.

POWER REQUIREMENTS - +24 VDC AT 75 mA
+100 VDC AT 3 mA
NEGATIVE GROUND



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