

HARRIS



COMMUNICATIONS AND
INFORMATION HANDLING

AUDIO P.I.B.

AM MODULATION ENHANCER

(Use only with Harris' MW Series of AM Transmitters)



MODEL ME-1

The ME-1 is designed to enhance the modulation of a Harris MW Series AM transmitter. Depending on its setting, the ME-1 can cause up to a 3 dB increase in loudness over and above that increase already attained by using an MW transmitter. Because of the increased power caused by the ME-1, and the transient response required from the transmitter, **it is recommended that it be used only with Harris' MW Series—other transmitters may not be able to handle this type of heavy processing.**

The ME-1 is basically an adjustable clipper which has been designed to clip in such a fashion as to reduce the "fuzzy" sound usually associated with a hard clipper. However, the clipping action is square enough not to add a large amount of distortion to the average program level.

When adjusted properly to the station's format, the ME-1 will reduce the small peaks, which have little power but are holding the average level down, and

allow the larger and more powerful levels of the audio signal to modulate the transmitter at the maximum limit.

Only a listening test will determine how much enhancing is desired. The more enhancing (3 dB maximum), the louder the signal. **Remember to adjust the transmitter for maximum legal modulation, using the limiter output control with the ME-1 in the calibrate position then switch in desired enhancing (1, 2 or 3 dB) and adjust the positive and negative control of the ME-1 for maximum modulation.**

ME-1 controls include separate adjustments for both positive and negative peaks; a pushbutton for disabling and calibrating, and one pushbutton each to set the ME-1 for 1, 2 or 3 dB of signal enhancing.

The ME-1 must be placed between the AM peak limiter and the transmitter, with no transformers or other circuitry.

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FOR SPECIFICATIONS AND ORDERING INFORMATION SEE REVERSE SIDE.

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SPECIFICATIONS

AUDIO DISTORTION:

Dependent on enhancing level.

NOISE:

65 dB down from +10 dBm output.

FREQUENCY RESPONSE:

± 0.5 dB from 20 Hz to 20 kHz.

COMPRESSION RATIO:

4/1 dB.

AUDIO INPUT AND OUTPUT:

600/600 ohms.

INPUT LEVEL:

Requires 16 dBm input for +10 dBm to transmitter.

CONTROLS:

One negative peak adjust, one positive peak adjust, one disable/calibrate pushbutton, one pushbutton each for 1, 2 or 3 dB enhancing.

LAMPS:

One green power lamp, one negative peak enhancing, one positive peak enhancing.

POWER CONSUMPTION:

10 watts.

PRIMARY POWER INPUT:

117 volts, 60 Hz.

DIMENSIONS:

19 inches (48 cm) wide, 4 inches (10 cm) deep, 3.5 inches (8.9 cm) high.

WEIGHT:

3 pounds (1.4 kg) net.

ORDERING INFORMATION

ME-1 AM Modulation Enhancer..... 994-7757-001

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