

## GENERAL INFORMATION

The EMCO Model 3301 Electric-Field Antenna is a broadband (10 kHz to 30 MHz) radio frequency preamplifier designed for use with most 50 ohm input receivers. With its 41-inch telescoping rod antenna, it provides approximately 15 dB of gain over the Empire VX-105 Antenna at 14 kHz, and 30 dB of gain over the Empire VA-105 at 20 MHz. The 3301 has a self-contained battery power supply and is readily mounted on a standard tripod. Provisions have also been made to allow the use of an external power source.

## SPECIFICATIONS

Input Impedance: Greater than 1 megohm

Output Impedance: 50 ohms

Power Requirements: 4 each 3.5V lithium batteries mounted internally for +14V supply voltage.  
Quiescent power drain, 200 milliwatts.  
Typical battery life, 80 hours. External supply voltage, + and - 15 v.

Passband: 10 kHz to 30 MHz

Harmonic Distortion: -40 dB from fundamental

Gain Characteristics: See Fig. 2, page 4

Antenna Factor: See Table 1, Page 7

Dynamic Range: Approximately 66 dB