

COMMAND ENCODER/EXCITER - 5 WATT

DATA SHEET & TECHNICAL SPECIFICATIONS



Features

- ▶ EIA 19" Standard Rackmount/Portable
- ▶ Individual Tone Control: 1, 2, 5 (standard)
- ▶ IRIG 313-01 Compliant
- ▶ RF Output Power of 5 Watts (options available)
- ▶ Carrier ON/OFF Switch
- ▶ Adjustable Carrier Frequency
- ▶ Local/Remote: RS-232, GPIB

Applications

- ▶ Range Safety
- ▶ Test

The Model CEE-XRXA5W was specifically designed for use with Unmanned Aerial Vehicles (UAV's), missile systems, and aerial target drones and is currently in operation supporting various missions worldwide. Designed to be IRIG 313-01 and 319-14 compliant, it is a rack mount unit used for flight termination and command. The unit accepts AC power and generates a modulated RF output FM signal suitable for interrogation of IRIG standard flight termination receivers and a variety of command receiver/decoders.

The basic CEE-XRXA5W features three tone switches on the front panel that can be factory set to the frequencies of your choice. The unit also features thumbwheel

switches for setting the carrier frequency from 406 MHz to 450 MHz in 100 kHz steps as well as a carrier ON/OFF switch.

Internally generated command tones modulate the synthesized RF carrier to produce a 5 Watt (minimum) RF output. Upon power up, the CEE-XRXA5W will immediately transmit the FM carrier frequency and the three tone switches can be turned ON/OFF independently to allow the operator to output any command tone sequence. There are many different variations of the unit available. Individual tone selection, FTS command tone sequences, switch configuration, RF output power, and many other options are available to meet any mission requirement.


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Specifications

- ▶ Power Input: Universal Input: 115 VAC to 230 VAC, 50 to 60 Hz
- ▶ Carrier Frequency: 406 to 450 MHz in 100 kHz steps
- ▶ Tone Frequencies: 1 through 20 are available per IRIG 313-01
- ▶ Carrier Frequency Stability: $\pm 0.0005\%$
- ▶ Power Output: 5 Watts (minimum) and higher power options are available
- ▶ Output Impedance: 50 ohms
- ▶ Output Connection: Type N Female
- ▶ Modulation: Wideband FM, ± 30 kHz per tone
- ▶ Spurious Outputs: -50 dBc
- ▶ Commands (Optional):
 - FTS Commands
 - MONITOR – Tone 5
 - OPTIONAL – Tone 4
 - ARM – Tone 5 + Tone 2
 - DESTRUCT – Tone 2 + Tone 1 minus Tone 5
- ▶ Size: 5.25" H x 18.75" D
(Standard 3U EIA 19" Rack Mount)
- ▶ Weight: Less than 20lbs

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