

FM-850



The FM-800 series are professional grade mono/stereo FM transmitters operating in the commercial FM broadcast band (87.9 - 107.9MHz). Both models ([FM-800](#) & FM-850) can be used as a stand alone FM transmitter or as an FM exciter for greater RF power (RF power amplifier required). The FM-800 series are one of the easiest available FM transmitters to program and operate, thanks to our latest development in digital programming circuitry. It is now possible to digitally program the frequency and the RF power with accessible direct dial switches on the front panel. Manual tuning or calibration becomes a thing of the past with these FM transmitters. The FM-800 series are currently the best affordable, stable and trouble free FM transmitters available on the market today; thanks to its new auto-compensation circuitry that will assure optimum RF linearity on a temperature range of -50°C to +50°C (-58°F to +122°F). The stereo generator of the FM-850 model features a full digital circuitry that allows a stereo separation greater than 45dB. Both models feature an incredible carrier frequency tolerance equal to, or greater than .0008% .

APPLICATIONS: Decade transmitters are intended for use in low power broadcast stations, community and campus radio but can also be used (where allowed) for multi-lingual conferences, play by play broadcast inside arenas and stadiums (the FM-800 series are able to cover a 42,000 seats stadium when used with good quality FM walkmans at the receiving end). Applications are endless...

FEATURES

- User programmable frequency (Decimal switches).
- User programmable RF power (Decimal switches).
- No manual tuning or calibration required.
- Hi-Fi mono/stereo audio mode(selectable) (FM-850 model).
- Bass boost mode(selectable)(FM-850 model).
- Digital stereo generator (FM-850 model).
Peak indicators with associated volume (Both models).
- Frequency precision of .0008% on the main carrier.
- DAFP and DAPP technologies.
- Continuous duty.
- Two years warranty (parts&labour).

SPECIFICATIONS

RADIO SECTION:

MODULATION: FM, deviation of 75kHz

FREQUENCY RANGE: from 87.9 to 107.9 MHz (programmable)

FREQUENCY PRECISION: 0.0008% or better

HARMONICS REJECTION: 55 dB min., 60 dB typ.

OUTPUT POWER: 0 mWatt to 1.8Watts, programmable in increments of 50 miliWatts.

LOAD IMPEDANCE: 50 Ohms typ.

ANTENNA CONNECTOR: UHF-F (SO-239)

HOMOLOGUATION STANDARD: BETS-6 , RSS-123

CONTROLS & INDICATORS: Frequency selection and readout, Power selection and readout, Tuning lock status indicator.

AUDIO SECTION:

MODE: stereo/mono (HI-FI)(selectable)

FREQUENCY RESPONSE: 20 Hz - 15 000 Hz, @-1dB *

TOTAL HARMONIC DISTORTION: 0.05% max.

SIGNAL TO NOISE RATIO: 65 dB min.

DYNAMIC RANGE: 80 dB min.

STEREO SEPARATION: 40 dB min., 45 dB typ. **

INPUT IMPEDANCE: 600 Ohms balanced (XLR), 10K Ohms unbalanced (¼")

CONNECTORS: 2 x XLR3 and 2 x ¼"

INPUT LEVEL: balanced: -4dBm min.. unbalanced: -10 dBm min

INDICATORS: Normal and over modulation indicators , stereo and bass boost indicators

CONTROLS: input level , mono/stereo selector, bass boost selector

* Broadcast standard

** The minimum required separation for FM transmitters is 25 dB. The best receivers have a separation of 40dB, so the effective separation is more a matter of the quality of the receiver.

MISCELLANEOUS:

POWER REQUIREMENTS: 120 V, 60 Hz, 40VA AC

PROTECTION: grounded AC plug and 500 mA slow

blow, 120 V fuse DIMENSIONS: 19" x 11" x 1.75" (48 cm x 28 cm x 4.5 cm), 1 rackmount space

WEIGHT: 12 lb (5.45kg)