



FMX30+ 30W FM EXCITER

ELECTRONICS PTY LTD



The FMX30+ is a solid state 30W FM exciter designed for FM broadcast service.

The heart of the FMX30+ is a microprocessor controlled, low phase noise, phase locked loop. This gives excellent audio performance whilst allowing total carrier frequency flexibility.

The signal from the PLL is amplified up to in excess of 30W by a broadband MOSFET stage. One advantage of this technique is a high level of tolerance to reflected power.

For maximum value for money, the FMX30+ comes complete with a stereo generator as standard.

The audio input processors incorporate Bessel anti-alias filters as well as peak limiters. The user may also select the type of pre-emphasis applied to the audio. The audio input impedance may be set to 600 ohms for older systems, or high impedance for newer installations.

Extensive telemetry functions allow all parameters to be read or programmed remotely, as well as allowing the front panel to be locked for non-secure locations.

Over line voltage, over SWR and over temperature protection are all standard.

Each FMX30+ comes complete with extensive documentation covering installation, use, maintenance and trouble shooting.

The FMX30+ is designed and manufactured in Australia and comes with a 3 year warranty.

SPECIFICATIONS

Output power	>30W continuous
Carrier frequency	87.5 to 108.0 MHz
Channel spacing	10 KHz
Carrier stability	<200Hz from nominal
Modulation	Stereo FM 75KHz peak deviation
Audio response	10Hz to 15KHz
Pre-emphasis	75uS, 50uS or none
Distortion	<0.1%
Audio SNR	80dB typical
Stereo separation	>50dB
Line voltage	85-132VAC 176-264VAC
Line power	<150VA
Audio input level	-10dBm to +10dBm
Input impedance	10K or 600R, balanced
Protection	Over temperature Over line voltage Over SWR
Dimensions	Width 500mm Depth 250mm Height 90mm
Weight (approx)	<8Kg
Cooling	Forced air
Audio connector	XLR female
Input line connector	IEC male
Output RF connector	N female
Telemetry connector	DB9 female