

FMX-30B

30 watt Frequency Agile FM Exciter



The Armstrong FMX-30B is the next generation in frequency agile excitors.

Designed to meet the exacting standards of Broadcast Engineers the FMX-30B offers extremely low distortion and superior intermod values combined with a high signal to noise ratio.

Microprocessor controlled and packaged in a sleek compact chassis the FMX-30B tunes as easily as your car radio and it is the perfect choice as your main or back-up exciter

Its front LCD screen features all system parameters on a scrolling menu including Modulation, Power Output, Frequency, Power Supply parameters and more.

Features

- Front Panel Frequency Agile
- Advanced Microprocessor Control
- LCD display of all parameters
- Full Remote control and status indicators
- VSWR Protection
- Automatic Power Output Control
- Three SCA Inputs
- Optional internal stereo generator

FMX-30B

Technical Specifications

Electrical Specifications

RF Power Output	0 to 30 Watts continuously variable
RF Output Connector	Type "N" female
RF Output Impedance	50 Ohm
Frequency Range	87.5mHz -108mHz
Frequency Setting	Direct Software Programming
Frequency Stability	± 1ppm from -10°C to +50°C
Modulation Type	Direct Carrier
Spruious & Harmonic Suppression	-75dBc typical
Modulation Capability	240kHz MPX/Mono, 210kHz Stereo Typical
Asynchronous residual AM	< -70dBwrt. 100% peak AM
Synchronous residual AM	< -50dB wrt.100% peak AM w/75kHz
	75kHz Dev@400Hz
C.A. Power Supply	80-260V Full Range
C.C Power Supply	24 VDC
Power Consumption	120VAca

Input

Left, Right and Mono	XLR Female Bal or UnBal
MPX Input	BNC Unbalanced
Input Impedance	Balanced: 600 or 10K Ohm selectable Unbalanced: 50 or 10K Ohm selectable
Input Level	-13dBm - +13dBm countnuously adjustable
Preemphasys	0, 50us(CCIR), 75us (FCC) selectable
SCA/RDS Input	3 BNC unbalanced
SCA/RDS Input Impedance	10k Ohms
SCA/RDS Input Level	-20dBm- +13dBm for 2.0kHz
SCA/RDS Amplitued/Frequency response	± 0.2dBm 40kHz to 100kHz

Output

RF Output	Type "N", 50Ohm
RF Test	BNC, -30dB wrt. Carrier Level 50 Ohm
19Khz Pilot Tone Output	BNC connector, 1Vpp, 4.7k Ohm minimum load.

Mono Operation

S/N	> 80dB wrt.75kHz, measured in the band 20Hz= 20kHz 50us deemph.,RMS Detect
Amplitude Frequency Response	± 0.5dB, 20Hz -15kHz
THD (Total Harmonic Distortion)	< 0.05%

MPX Operation

Composite S/N	> 80dB wrt.75kHz, measured in the band 20Hz= 20kHz 50us deemph.,RMS Detect
MPX Amplitude Frequency Response	± 0.05dB, 20Hz -53kHz ± 0.2dB, 53kHz -100kHz
MPX THD	< 0.02%
Stereo Separation	> 60dB typical with External Stereo Gen.

Mechanical and Environmental Specifications

Dimensions	19"W x 3.5" H (2RU) x 26.5" D (483mm x 88mm x 673)
Weight	13.2 Lbs (6Kg)
Cooling	Forced Air
Operating Temperature	-10°C - +50°C
Humidity	95% Maximum non-condensing
Altitude	7500'(2300m) ASL



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