FMX25+ RUGGEDISED 25W FM EXCITER

SPECIFICATIONS

Output power	**>25W continuous**
Carrier frequency	**87.5 to 108.0 MHz**
Channel spacing	**100 KHz**
Carrier stability	**<200Hz from nominal**
Modulation	**Mono/Stereo FM**
Audio response	**10Hz to 15KHz**
Pre-emphasis	**50uS**
Distortion	**<0.05%**
Audio SNR	**80dB typical**
Line voltage	**176-264VAC, 50Hz**
Line power	**<110VA**
Audio input level	**-10dBm to +10dBm**
Input impedance	**10K, balanced**
Protection	**Over temperature** **Over line voltage** **Over SWR**
Dimensions	**Width 280mm** **Depth 150mm** **Height 180mm**
Weight (approx)	**<6Kg**
Cooling	**Convection**
Operating temp	**-10 to +50 degrees**
Audio connector	**XLR female**
Output RF connector	**N female**
Telemetry connector	**DB9 female**

The FMX25+ is a solid state 25W FM exciter designed for FM broadcast service in hostile environments. This unit is rated IP67 and is totally dust and water proof.

The heart of the FMX25+ 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 25W by a broadband MOSFET stage. One advantage of this technique is a high level of tolerance to reflected power.

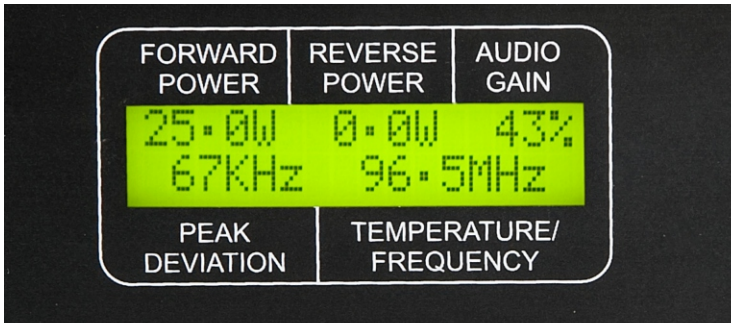
The audio input processor incorporates Bessel anti-alias filters as well as peak limiters.

The FMX25+ includes an inbuilt stereo generator as standard.

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 FMX25+ comes complete with extensive documentation covering installation, use, maintenance and trouble shooting.



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