



DESCRIPTION

The Belar RFA-4 Frequency Agile FM RF Amplifier is a microprocessor controlled, tunable RF amplifier designed for use with Belar's complete line of FM monitors, including the FMM-1 series, the FMM-2 series, and FMMA-1 "The Wizard" series. It features 10 memory locations for one-button access to 10 stations with call letters. Direct dial of any standard FM frequency is also possible, and UP/DOWN buttons are included. The station's call letters can be programmed into the display with the frequency for quick and easy reference. A sophisticated, multistage filter ensures the highest possible performance.

When used with The Wizard Precision Digital FM Modulation Analyzer (Model FMMA-1), the RFA-4 can be operated completely remotely, via an IBM compatible PC and 2400-baud modems. Any preset can be accessed, and any station can be dialed in directly.

Local Oscillator and 10.7 MHz IF outputs are provided for use with the Belar FMM-4A Frequency Monitor for easy and convenient off-air frequency measurement.

FEATURES

- 10 memory presets with programmable call letters
- Direct dial of any standard FM frequency in 50 kHz increments
- Non-volatile memory for presets, calls
- Input Attenuator: 0, 6, 12, 18 dB, switched

- Automatic Gain Control (AGC)
- 10 bar LED RF Level Indicator
- Can be operated remotely (with The Wizard and optional Interface Module)

SPECIFICATIONS

RF Input Sensitivity	100 μ V
Signal-to-Noise Ratio:	
100 uV input.	75 dB
500 uv input.	85 dB
RF Input Impedance	75 Ω , BNC
Input Attenuator	0, 6, 12, 18 dB
RF Frequency Range	87.75 - 107.95 MHz
	in 50 kHz increments
Outputs	650 kHz IF
	10.7 MHz IF
	98.45 MHz to 118.65 MHz LO
Capture Ratio.	1.5 dB
Selectivity:	
Alternate Channel.	27 dB
3rd Adjacent Channel	46 dB
Harmonic Distortion.	< 0.03%
	@ 1 kHz, 75 kHz deviation
Separation with FMM-2 or Wizard Demod	
1 kHz.	65 dB
15 kHz	55 dB
Dimensions	1 EIA Rack Unit
	1.75"H x 10.5"D x 19"W
Power Requirements	11 Watts, 100-240V
	50/60 Hz
Shipping Weight	10 lbs



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