

# 232-FMA

## Stereo FM Tuner RS-232 Control



The Contemporary Research 232-FMA is a versatile RS-232 controlled FM tuner featuring stereo audio, 10-preset memory, front-panel operation and feedback, and intelligent control. Fully programmable, the unit can restore all settings on power-up from non-volatile memory.

The front-panel buttons and LED display can be used for general operation and to program basic features for tuning, RS-232 baud rate and local control. Full setup, control, and feedback is provided by RS-232. Up to three FM, TV tuners, and AV6x4 Routers can be controlled from a single RS-232 port. In addition, remote preset up and down operation can be accessed through contact closure inputs.

Applications include FM radio origination for home theaters, educational television systems, theme parks, museums, government facilities, arenas, convention centers, airports and corporate communication networks.

### Features

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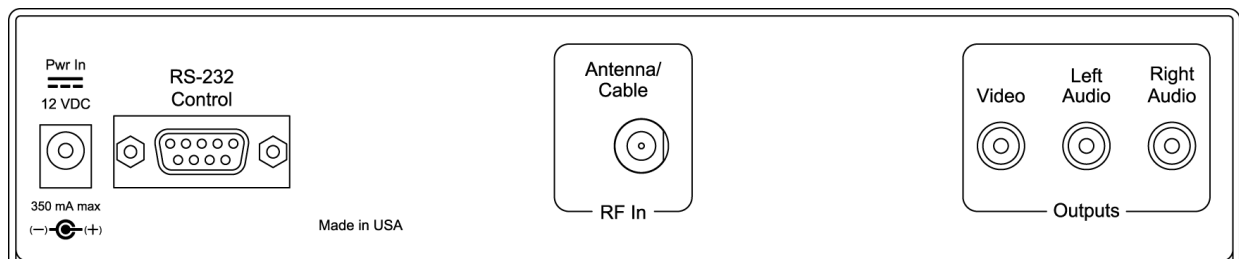
- ▽ Tunes FM stereo broadcasts with local/DX modes, auto stereo/mono operation
- ▽ Interacts with PCs and control systems via RS-232, using simple ASCII-format commands and feedback, up to 3 tuners can be linked to a single RS-232 control port
- ▽ Stores up to 10 presets in onboard memory, unlimited presets via external control system
- ▽ Provides front-panel control for A/V Mute, Seek up/down, and Preset up/down; with LED feedback for Mute, current frequency and programming mode
- ▽ Accesses preset up/down from contact closure inputs
- ▽ Restores all operation status after loss of power from data stored in non-volatile memory
- ▽ Mutes audio with front-panel LED indicator
- ▽ Enables and disables front-panel operation via front-panel and RS-232 commands
- ▽ Mounts in 19" rack with optional RK1 or RK2 kit for dual side-by-side installation



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# 232-FMA Specifications



## Physical

Size: 8.5" [216mm] wide x 1.75" [38mm] height (1RU) x 6.0" [153mm] deep  
Weight: 1.25 lbs [0.57kg]  
Enclosure: All aluminum with durable black powder coat paint  
Mounting: Rack mounting for one or two units side-by-side optional (RK1, RK2)

## Front Panel

Push Buttons: Preset up and down, Seek up and down, and Mute All A/V  
Indicators: Red LED: Mute All A/V status  
3 digit, 7 segment red LED display for frequency and stereo/mono mode

## Rear Panel

Power In: 2.1mm coaxial jack (inside center conductor positive)  
11.5 to 16.5 VDC, 12 VDC typical, 100 mA max (may be unregulated)  
RS-232 Control: DB-9 male  
User selectable 300 to 9600 (default) baud, 8 data bits, No parity, 1 stop bit  
All standard ASCII keyboard character strings available from any terminal program  
2 momentary closure inputs close to ground (pin 5) to select stored presets  
Preset Up (Pin 4), Preset Down (Pin 9)  
Antenna: F female antenna connector  
87.7 to 108MHz automatic fine tuning to 1 KHz  
+35dBmV maximum, -20dBmV minimum input level (DX Mode)  
-20dBmV typical local mode attenuation (Local mode)  
Video Output: RCA female, not implemented presently  
Audio Outputs: Stereo RCA female, left and right channels  
Unbalanced line level, 600 ohm impedance  
40Hz to 14KHz response  
3% maximum, <1% typical total harmonic distortion (THD)  
24dB minimum, 28dB typical stereo channel separation  
68dB typical signal to noise ratio  
160mV RMS typical output level (or mute)

## Includes

12 VDC Power Supply (North America shipments only)