

FTA100P

AM/FM Broadcast Monitor & Translator Receiver



Fanfare AM/FM receiver fully equipped to also provide high quality AM(stereo) for proposed AM to FM translators or FM-stereo

Complete with state-of-the-art, AMAX* AM-stereo, the Fanfare FTA-100P monitor/ translator receiver is the industry-recommended receiver for both AM, and FM broadcasters. Not only that, it's ability to wear both AM and FM hats makes it particularly cost effective as a back-up for difficult FM translator/repeater work. Why, because the FTA-100, like its FM-only brother, the FT-1AP, is highly reliable in unmanned settings. As such, the FTA-100's solid rf sensitivity and selectivity can be expected to maintain the signal at your translator at maximum efficiency and fidelity, even under high rf saturation, narrow frequency offset, or in a deep fringe location.

For AM's, whether they're transmitting in mono or stereo, the FTA-100 provides maximum bandwidth and the most transparent audio possible for quality control monitoring. All in all, the Fanfare FTA-100P provides the most accurate picture, in real time, of just how good your station signal really sounds.

Sharing only the control system and the audio stage, the Fanfare FTA-100P is actually 2 tuners in one cabinet. The AM section is built on the Fanfare FT-1AP FM monitor base which, according to those using the FT-1AP, on a remote, it has often brought a fully listenable, station signal into venues where even car radios have failed. Such a capability has proven invaluable to both the remote engineer and on-air talent, providing incentive for the highest program quality. This is a result of the FTA-100P's high level of rf sensitivity and selectivity in both AM and FM.

Under the Hood

The FTA-100 is a digitally controlled, analog design. Tuning for FM is accomplished in 50KHz steps, while tuning for AM is accomplished in 10KHz steps. 9KHz stepping is also available. Tuning accuracy is maintained for both AM and FM by separate a micro-processor-driven PLL circuit. This negates drift during warmup, or during sudden voltage anomalies. The Composite Output remains 'live' at all times while the unit is connected to a live pwr source. Its output can be adjusted from 1 - 4V p-p.

Agile tuning is quickly accomplished via 'up/down' push-buttons on the front panel. Local stations may also be scanned via 'up/down' buttons that tune to the next station being received at 50dBf+ quieting in either stereo or mono. Up to 8 stations per mode (AM or FM) can be programmed as presets. Control buttons may also be flush-mounted or recessed for safety or security reasons.

Wide and Narrow IF band switching is available. Narrow IF band is especially effective in dealing with first and second adjacent intrusion with no noticeable restriction of the audio bandpass.

Composite Output is available via BNC on the rear panel. Level is set via the control right above the connection.

Audio output in stereo for real time monitoring is available via a 1/4" stereo phone plug receptacle situated on the front panel, as is its gain control.

The FTA-100P's standard equipment for FM now includes adjustable "Carrier Sense". When invoked, CS continuously monitors the incoming signal. Once the carrier has dropped below a pre-set level, for a prescribed length of time (120 or an optional 5 seconds), the sensing circuit shuts down both the Composite Output and the audio. A 12 VDC utility voltage is also available on the rear panel. The CS circuit is self-resetting. Should the carrier level rise above the pre-set threshold, output to the exciter will automatically re-established. Power interruption is not a problem for the FTA-100P. If a failure should occur, its battery-backed microprocessor returns all functions, including tuning, to the exact same settings that were in play at the time of power failure. Field service is available as all boards are directly replaceable and do not require in-service alignment. Input voltage can be changed at any time to 120, 220 or 240VAC. De-emphasis can also be changed at any time through the use of jumpers on the FM board.

Finally, at the heart of the FTA-100P's, state-of-the-art control system is a flashable, software memory. This modern innovation assists the analog function by providing the necessary parameters for the digital control and PLL system. It also allows the flexibility of field updates to the control system at any time. This may be without the necessity of having to return the unit to the factory.

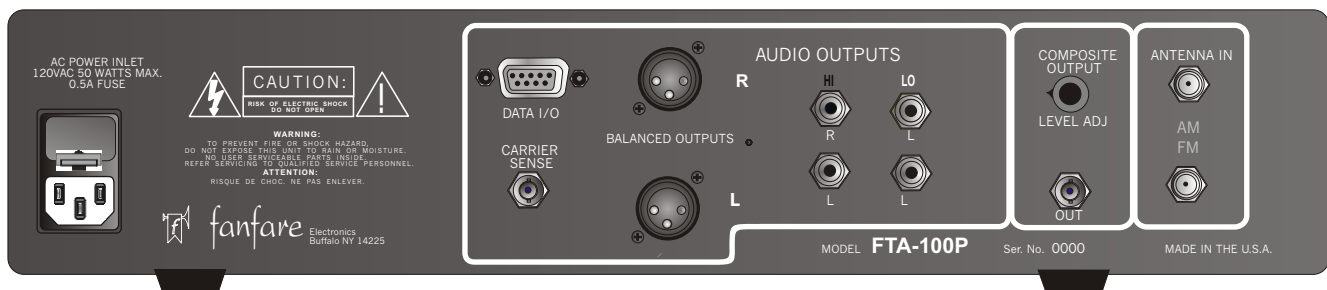
With nothing near it in terms of sturdiness, performance and price, the FTA-100P is probably the most cost-effective FM/AM-Stereo, translator receiver on the market today.

Latest Options

9KHz AM channel spacing, along with 120/220/240 volt capability takes the FTA-100 to true "world-class" status. RS232 I/O serial data port prepares the FTA-100 for installation in centrally controlled, home theater systems all over the world. Fanfare's data system features response to all faceplate commands, along with direct frequency entry. IR Remote Control mirrors all functions on the front panel and is especially useful when the unit is doing comparison work.

The power receptacle, which is fused at 0.5A, accepts an ISE modular power cord. The FTA-100P meets or exceeds the standards as established by CSA, UL and complies with European CE requirements.

A Note to the Chief Engineer : FM audio from the FTA-100P approaches that of 100% of source duplication, and you can't get more real than that. Regarding "interns": Fanfare monitors are sturdily built so they can survive "road-case" fatigue and the many other unseen indifferences, as might be experienced in any remote monitoring situation.



SPECIFICATIONS

FM

*Sensitivity(usable) - mono: 9.5dBf (3.0µv)
 Sensitivity(usable) - stereo: 10.5dBf (3.4µv)
 Sensitivity(50dB quieting) - mono: 13.0dbf (4.5µv)
 Sensitivity(50dB quieting) - stereo: 31.0dBf (35.5µv)
 Adjacent Channel Selectivity - wide: 12dB
 Adjacent Channel Selectivity - narrow: 25dB
 Alternate Channel Selectivity - wide: 55dB
 Alternate Channel Selectivity - narrow: 75dB
 Stereo Separation (1KHz): >45dB
 Total Harmonic Distortion - mono: 0.15%
 Total Harmonic Distortion - stereo: 0.25%
 Audio frequency response (±1.5dB): 30Hz - 15KHz
 Signal-to-Noise Ratio(SNR) (A-weighted): 75dB
 AM suppression: -70dB
 Capture Ratio: 1.5dB
 SCA suppression: -70dB*

AM

*Sensitivity-useable -10dBf(mono) - 40dBf(stereo)
 Image Rejection - 35dB
 Total Harmonic Distortion (THD) - 0.3%
 Channel Bandwidth - 10KHz or (NEW) 9KHz*
 Stereo Separation - 35dB
 Selectivity (Wide) - 25dB (Narrow) - 35dB
 Signal/Noise Ratio (SNR) - 55dB
 Audio Response(wide) - 25Hz - >10KHz
 Audio Response(narrow) - 25Hz - >7.5KHz*

*Power: 120, 220 or 240VAC @ 50 W(max)
 Dimensions (US): 19"(w)(or 17") x 10.25"(d) x 3.5"(h)
 Dimensions (mm): 483(w)(or 432) x 260(d) x 89(h)*



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