

either SSB or AM envelope monitoring.

## **CleanRF Systems**

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## **RF-AM1K** (AM Modulation Monitor / Variable RF Sampler) (1,000 Watts)

AM Modulation Monitor - The model RF-AM1K (AM Modulation Monitor) is designed as both an AM Audio Demodulator, External Trigger source and Variable RF Sampler.

The base band AM Audio Demodulator is designed to directly demodulate the RF envelope from your transmitter to a usable signal, yielding a flat audio frequency response ranging from 10 Hz to 16 kHz.

This signal is suitable for feeding stereo headphones, line level amplifiers or audio mixers with the final audio level adjustable to the 1/4" TRS output Jack.

The External Trigger output of the model RF-AM1K provides a unique signal suitable for feeding the "External Trigger" input of your oscilloscope. This signal has an ability to synchronize your horizontal modulation envelope sweep, regardless of changing voice or data modulated frequencies, in

An RF envelope may be monitored simultaneously from the Variable RF Sampler in conjunction with an oscilloscope.

The power rating is from 10w ~ 1000w PEP, typical 250w carrier. The model **RF-AM1K** is an ideal solution for moderate powered medium wave, short wave or amateur broadcast transmitters.

**Note:** It is recommended to stay as near to your transmitter's max PEP power rating when choosing any of the RF-AM series, as this will yield the best signal output to the end user.

Additionally, the model **RF-AM1K** features a passive-flat operational VSWR over a broad frequency range and insertion loss is a negligible 0.1 dB. The **RF-AM1K** produces both an un-rectified, variable and continuously adjustable non-directional sample at the BNC; a rectified, continuously variable, non-directional demodulated source at the 1/4" TRS jack and a rectified, non-variable, non-directional demodulated source at the eternal triggers BNC jack making the **RF-AM1K** an ideal choice for a veriety of applications.

All CleanRF Systems chassis are built, assembled and tested here in the USA headquartered near the grounds of WWV and are finished over by a baked-on black textured outer-coating finish for decades of continual service and performance. Connectors are custom long barrel SO239's for easy installation. Products are fully warrantied against any defects both electrically or mechanically and include BNC cables and adapters for plug and play operation!



## **RF-AM1K Specifications**

Frequency Response: RF: 2 ~ 30 MHz – Audio: 10 Hz ~ 16 kHz

Rated Input: 10w ~ 1,000w PEP
Sampler Output: -60dBm @ 15MHz

AM Dynamic Range: 60dBuConnectors In: SO-239

Connectors Out: SO-239, ¼" TRS, and 2 BNC's

• Controls: Variable RF Output 6dB, Variable AF Output

VSWR: < 1:1.1</li>Insertion Loss: < 0.1 dB</li>

Cables and Adapter: 6 Ft. BNC Male-to-BNC Male and UHF Male-to-Male Adapter

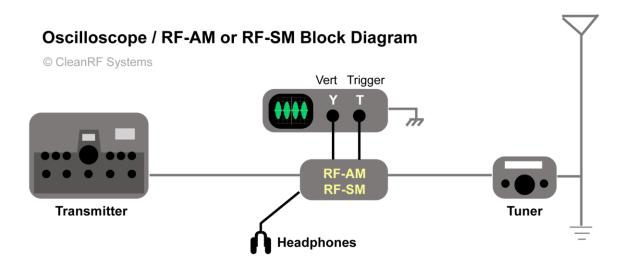
Applications: - RF Modulation Envelope Monitor

- RF Envelope Source Trigger Synchronization

Peak Envelope Power MonitorAM Audio Modulation Monitor

Dimensions:
W 2 1/8" x L 4" x H 1 5/8"





## Amplitude Modulation Dynamic Range at 1 kHz

