

MODEL AF225 FM RECEIVER/MONITOR OPERATION MANUAL

GENERAL:

The Model AF225 is a precision FM (mono) broadcast receiver designed for EAS or other monitoring purposes. The receiver is PLL (phase lock loop) controlled. The frequency of operation is selected using internal DIP switch combinations. A continuous LINE receiver output is provided as well as a SPKR audio output for driving an 8 Ohm speaker. The receiver is designed for the most demanding sensitivity, distortion, and signal to noise requirements. There are Carrier and Modulation indicators. Balanced audio output as well as Carrier Level Relay outputs are available as an option.



AF225 FM Receiver Front/Rear (with Relay Option)

The receiver circuit board has 10 VDC automotive style regulators. Input power is derived from wall mounted power converters (115 VAC to 12VDC) or other 12 VDC sources. The receiver is housed in a metal case or configured as one receiver in the AFC3 multiple receiver rack mount chassis.

SPECIFICATIONS:

Tuning Range:	88 to 108 MHz, selected by internal DIP switch.
Antenna Input:	"F" connector, 75 Ohm
Sensitivity:	1.0 microvolt, 12 dB SINAD 3.0 microvolt limiting
Frequency Response:	20HZ to 15KHz (-3dB)
Distortion:	0.25% THD at 100% Mod
Maximum s/n:	60 dB
Line Output:	1.0 V rms, 600 Ohms
SPKR Output:	0.5 Watt into 8 Ohms
AM Rejection:	50dB
Intermodulation:	5 mV (73dB) Rejection

POWER REQUIREMENTS:

115 VAC, 20 Watts; 12VDC, 300 mA (wall converter provided)

CONTROLS:

VOL Control:	Rear Panel mount Screwdriver adjust
Carrier Level Relay:	Internal adjust (RV2)
Line Level Adjust:	Internal Adjust (RV3)

INDICATORS:

Carrier:	Front Panel mount LED
Modulation:	Front Panel mount LED
Power:	Front Panel mount LED

SIZE:

Metal Case Size:	6.0"W x 8"D x 1 3/4"H Weight 1.5 lbs
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OPTIONS AVAILABLE:

Option -MF 19" front panel rack mount (1 3/4")
 Option -B Balanced LINE output via DIN connector
 Option -R Carrier operated Relay via DIN connector
 AF225 can be selected as one of the receivers in the AFC3 package (options B & R are standard in the AFC3).

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