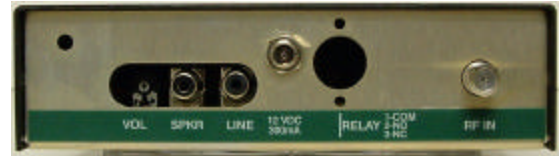


MODEL AF810 PUBLIC SERVICE MONITOR

GENERAL:

A special receiver for the Public Service Band (148 to 175 MHz). This receiver is designed to meet professional monitoring and EAS equipment input requirements.

The receiver is PLL (phase lock loop) controlled. The frequency of operation is selected using internal BCD switches. A continuous receiver LINE audio output is provided. A second output (SPKR) is also provided. The SPKR output audio is controlled automatically by a sequential tone detector circuit that monitors the receiver audio for the presence of specified alert tones. There is also a TEST switch and a RESET switch for activating the SPKR audio and TONE DETECT ("alert") light manually.



AF810 in standard chassis

The receiver circuit board has 10 VDC automotive style regulators. Input power is derived from wall mounted power converters (115 VAC to 12 DC) 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:

Frequency of Operation: 148 to 175 MHz
 Frequency Increments: 5 KHz

With modulation of 1 KHz at 5 KHz deviation:

SENSITIVITY:

12dB SINAD 0.25uV
 20 dB S/N 0.50uV
 30 dB S/N 1.20uV

Adjacent Channel Selectivity: 60 dB
 Intermodulation Rejection: 65 dB
 Image Rejection: 50 dB
 Spurious Response Rejection: >60 dB

LINE Output: 1.0V RMS
 (open circuit R out is 600Ohms)

SPKR Output: 0.3 Watts, 8 Ohm
 (Adjustable, Volume Control)

TONE DETECTORS:

Dual Sequential Tone Detector unmutes the SPKR:
 Alert Tone Range: Motorola, Reach & GE
 Alert Response Time: 2 Seconds after 2n Tone
 Alert Tone Detection: 0.4 sec
 Bandwidth: +/- 5 Hz

Power: 12VDC, 300 mA
 (300 mA converter (provided))
 Metal Case Size: 6.0" W x 8" D x 1-3/4" H
 Weight: 1.5 lbs

When ordering, select from the following:

AF810 Standard Chassis
AF810C3 For use in the AFC3 chassis

OPTIONS:

Option- **MF** Individual 19 inch rack mount (1 3/4"),
 Option- **B** Balanced Line output, (DIN connector),
 Option- **R** Alarm Relay output, (DIN connector),

Options B & R are standard in AF810C3 for AFC3 chassis.

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