



Emergency Radio Station 4201-R

Emergency Alerts and Messaging for Campus

Description

Emergency Radio Station, to broadcast alerts for the duration of the emergency.

Transmitter

- ◇ 0-10-watt operation, Class D, high efficiency output; internal components rated to 3 times operating wattage.
- ◇ Federal Communications Commission certified for Travelers Information Service in the United States under Part 90.242., Certification Number B7MTR-6000TIS-WB.
- ◇ IPC-610 certified.
- ◇ Manufactured in compliance with Class 3 wavesolder standards.
- ◇ Approved for US military use.
- ◇ Single-board design with all RF, power and audio circuitry.
- ◇ Integral LED wattage and VU reference meters.
- ◇ Remote broadcast monitoring control.
- ◇ Synthesized frequency selection, compander-style audio processing.
- ◇ Defeat-able LED operation to save power.
- ◇ 24-volt DC, fully regulated power supply.
- ◇ 530 to 1700 kHz AM frequency range.
- ◇ Frequency stability +/-20 Hz.
- ◇ Continuously adjustable power and audio modulation controls, externally accessible on front panel.
- ◇ Tunable series filter on RF output.
- ◇ Audio distortion: less than 1.2%, 100 Hz to 3 kHz.
- ◇ Noise level: 70 dB below 95% modulation level, 100 Hz to 3 kHz.
- ◇ Modulation: 99%, -40 dB to #20 dB.
- ◇ Temperature: -40 to +85 degrees Celsius.
- ◇ Humidity: 95% (non-condensing).
- ◇ External audio, power and synchronization inputs.
- ◇ External PL-259 UHF style RF output and 1/4" audio head-phone output driven by detector circuit to provide positive modulation indication.
- ◇ Rack, panel or shelf-mountable cabinet.
- ◇ Slim-line design (7.5" high, 17" wide, 1.5" deep), 4 pounds.

Antenna and Groundplane System

- ◇ Yard, or isolated antenna installation styles.
- ◇ Whip-style antenna 15-25' long; maximum 2" OD, tapering to 0.5"; black anodized aluminum for maximum ice dissipation; stainless-steel tuning tip; aluminum construction, black finish color to discourage ice buildup; UV resistant finish; architectural anodization process #801.
- ◇ Wind rating: antennas 1230 kHz and above 100 mph; 80 mph with 1/4 radial ice; antennas 1220 kHz and below 80 mph; 50 mph with 1/4 radial ice. All hardware and mounts.
- ◇ Patented PowerPlane® groundplane with 1,250' of wire, 10-to-20' radius.



Rack-Mount Transmitter above, Ground-Plane antenna on the right.

Note: antenna can mount on rooftop.

