

## RAD-211

### FEATURES

- Universally recognizable red Cottage style box with traditional fire pull-lever
- Rugged, die-cast aluminum outer case designed to withstand all weather extremes
- Durable baked-on enamel finish
- Four and 10 circuit auxiliary trip available for connection to interior fire alarm control panels
- Factory supplied battery provides six months of operation before recharging
- Incorporates knock down & tamper as well as daily test signals
- Optional quick-action door covers push buttons for police, medical aid and road service
- Each RAD-211 operates independently of all other units in system
- Transmission available in 3-digit, 4-digit, or 5-digit Signals
- Solar chargers available
- Compatible with a King Fisher radio system
- NFPA 72 Compliant

### PRODUCT DESCRIPTION

Each RAD-211 is an individual radio transmitter and operates independently of all other boxes in the system. Since the system is wireless, the expense of installing and maintaining a cable network is eliminated. Service is not dependent on a direct wire circuit. Universally recognized red cottage shell casing withstands all weather extremes.

The RAD-211 uses AM to provide more reliable signal reception over longer distances and in weak signal areas. Standard transmission is available in 3, 4, and 5 digit signals. Prefix coding of the tone encoded AM signal provides greater protection against false alarms from interference. Round transmissions, with random variable time between rounds, increases reliability.

The RAD-211 is powered by a maintenance free, lead acid battery that provides power for up to six months before recharging is necessary. A Solar charger (available as an option) can maintain the battery in a fully charged condition. Trickle chargers are available as an option for those locations having alternating current.

The RAD-211 uses the traditional pull lever for fire emergencies. An optional quick action pull-guard lever compartment door is available. The push-button compartment is equipped with a light, providing night visibility when the spring loaded door is open. The lower compartment can house up to three push buttons for such messages as police, medical aid, or road service. When the fire lever is pulled or a button pushed, a message conveying the box number and type of alarm is transmitted to the Communications Center, then to a dispatcher. When a signal is sent from the box, a "message sent" light is illuminated to show the sender that the message has been transmitted. The fire portion of the box is equipped with a standard "break glass, pull guard door", which discourages false alarms. The box can be provided with an optional quick door in lieu of break-glass door.

Each RAD-211 is equipped with a knockdown/tamper signal. If a box is tilted in any direction, a signal is automatically transmitted. If the pole is knocked over, the fast signal will result in a transmission before the box hits the ground and goes out of service.

Each RAD-211 automatically tests itself once every 24 hours. If a box does not report to the Communications Center during a 24 hour period, the dispatcher knows immediately if the box requires attention. The RAD-211 also reports battery status during every transmission. After the first warning of low battery, the box will remain in service for at least 15 days.

A RAD-211 can be used as a local energy master box when equipped with relays. Up to seven separate buildings or individual zones within a building can be annunciated by the radio call box. Auxiliary circuit capabilities allow for tying in with the municipal system such as hospitals, schools, and nursing homes. Activation of internal alarm systems to these buildings will automatically be relayed to the RAD-211 for transmission to the Communications Center. The auxiliary tripping device is for uses with an associated interference control number.



# SPECIFICATIONS

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## **DIMENSIONS**

Height: - 17.0 in.  
Width: - 12.0 in.  
Depth: - 6.25 in.

## **WEIGHT**

Less than 25 lbs.

## **TEMPERATURE RANGE**

-30-150 degrees F

## **TRANSMITTER**

72-76 MHz  
138-148 MHz (government)

## **FREQUENCY STABILITY**

Tone encoded AM (1.0 kHz bandwidth)

## **MODULATION**

Tone encoded AM (1.0kHz bandwidth)

## **EMISSION TYPE**

1A2

## **TRANSMISSION TIME BETWEEN ROUNDS**

Randomly selected by box, 2-14 seconds

## **TRANSMISSION TIME FOR EACH THREE ROUNDS**

330-570 milliseconds nominal, depending on number of digits and messages

## **TESTING**

Automatic within each 24 hour period

## **POWER SUPPLY**

6-month battery; Solar charger and trickle charger optional

## **ACTIVATION SELECTION**

Fire- pull lever  
Other Emergencies- 1-3 push buttons  
Master Box (optional)- Up to 4 annunciated locations as standard; other arrangements available

## **CAPACITY**

3-digit, 999 box numbers  
4-digit, 9999 box numbers  
5-digit, 99999 box numbers  
14 emergency messages, plus knockdown/tamper, test and low battery signal