

## RAD-32 and RAD-64

### Features

- 32/64 EOL Inputs (4.7K), Plus Test, Tilt/Tamper, Low Battery
- AC Fail & Trouble
- Zone Bypass Switches
- Power Out One Watt
- Reports Alarm, Trouble and Secure, Bypass, Low Battery, Tamper, and AC Fail
- Barrier Strips 'Pop Out' for Easy Service
- Built-in Battery with Charger
- Watchdog Timer
- Electronics on Hinged Inner Door
- Complies with NFPA 1221
- HF & VHF Ranges
- In Circuit Programmable
- Visual/Audio Alarm & Trouble Indicators
- LCD Display with Keypad
- 1221 Radio Option required in System 3505 Prism Lx
- Programmable protocols include: Eagle Signal, Digitize, Digitize 99ZN, King Fisher IRAC and Harlow.

### Product Information

The RAD-32 and RAD-64 are 32- and 64-zone interior radio boxes are compliant with NFPA 1221. Each zone is end-of-line resistor type with 4.7K Ohms as the standard value. Ground detection is built in for both sides of each zone connection. The unit consists of 12 VDC battery, AC transformer, microprocessor control board, and AM or FM radio transmitter. Built-in features include battery charger, watchdog timer, auto restart, clock circuit, alarm/trouble visual and audible indicators, zone bypass, local FORM C trouble relay, AC power fail and low battery detection, fuse blow circuit, and a processor stop circuit should battery voltage drop below 8.5 VDC.



The RAD-32/64 is completely compatible with existing radio formats. A 24-hour test clock operates on 60 Hz with crystal backup in case of power failure.

Built-in diagnostics pinpoint service problems. Each zone may be individually bypassed during testing. Individual zone alarm and trouble indicators, along with an audible indicator and silencer switcher, are provided. A fuse blow bypass jumper is provided for service use.

Box number and other parameters are easily entered via a built-in programming mode. The programming process is performed completely in circuit, requires no special tools, chips or E-prom programmers, and does not require any straps, jumpers or soldering. In the test mode the technician may instruct the box to transmit continuously with or without tones.

The tone modulated, one-watt AM transmission is received and decoded by the Mark IV or VI receiver. The 1221 Radio Option (P/N 010001-0098) must be installed in the System 3505 Prism Lx order to interface to the RAD-32/RAD-64.

# Specifications

**Enclosure:** Steel enclosure with door and Cam lock

**Dimensions:**  
 Height - 24.4 in.  
 Depth - 5.06 in.  
 Width - 12.35 in.

**Antenna Connector:** BNC, Male, 50 Ohms

**Power:** 117 VAC, 50/60 Hz

**Operating Temperature:** -40 TO +60 Degrees

**Input Zones:** 32/64 Zones, EOL 4.7K

**Power Out:** One Watt

**Operating Frequency:** 72 – 76 Mhz, 138 – 174 Mhz (AM modulation)

**Battery:** 12 VDC, Battery backup (6.5AH), 60 Hours

**Ordering Information:**

- P/N 425127-0011 - RAD-32, 72-76 Mhz**
- P/N 425127-0012 - RAD-32, 138-174 Mhz**
- P/N 425129-0011 - RAD-64, 72-76 Mhz**
- P/N 425129-0012 - RAD-64, 138-174 Mhz**

