High Power Output For Exceptional Reach And Performance
Available in 50 W or 100 W options the VXR-9000 delivers the reliable performance and extended range needed. The slim-line design is crafted for easy installation and integration into most repeater sites.

Large Channel Capacity With Priority Scan
The VXR-9000 may be programmed with up to 32 channels over a wide frequency range and can perform in repeater or base station mode, depending on the application. Includes Priority Channel scanning capability for efficient communications monitoring.

Power Supply Backup With Alert
Should DC power fail at the repeater site, the VXR-9000 will automatically revert to a backup DC power source, if connected. Under backup DC power, the repeater will transmit an alert message to notify the operator that immediate attention is required at the repeater site.

Flexible, Automatic Command Sequence Configuration
The VXR-9000 may be programmed to perform a five-step sequence of commands for certain operating events. For example, during a DC power failure and the repeater switches to a backup power supply, the repeater can be programmed to switch to low power and send a CW ID advising of the situation, etc.

Designed For High Reliability
The cooling fan diameter is 3+ inches and thermostatically controlled to ensure a stable temperature environment for the VXR-9000. Fan operation may be programmed for three options: off, continuous or temperature-controlled, depending on the application. A malfunction alarm is also included.

Simplex / Duplex Capability
The 50 Watt VXR-9000 is designed for simplex mode with single-antenna operation or full-duplex mode with the optional VXD-60 duplexer when optimal communications is necessary at all times.
VXR-9000 Series Specifications

<table>
<thead>
<tr>
<th>General Specification</th>
<th>VHF</th>
<th>UHF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>134 - 160 MHz (A)</td>
<td>400 - 430 MHz (A)</td>
</tr>
<tr>
<td></td>
<td>148 - 174 MHz (C)</td>
<td>450 - 480 MHz (D)</td>
</tr>
<tr>
<td>Number of Channels</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>Power Supply Voltage</td>
<td>13.6 V DC ± 10%</td>
<td></td>
</tr>
<tr>
<td>Channel Spacing</td>
<td>25 kHz</td>
<td>25 kHz</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-22° F to +140° F (-30° C to +60° C)</td>
<td></td>
</tr>
<tr>
<td>Frequency Stability</td>
<td>1.5 ppm, 1.0 ppm (30 min. after wake up)</td>
<td></td>
</tr>
<tr>
<td>RF Input-Output Impedance</td>
<td>50 Ohms</td>
<td></td>
</tr>
<tr>
<td>Dimension (W X H X D)</td>
<td>19 x 3.5 x 13.5 inches (483 x 88 x 343 mm)</td>
<td>21.4 lbs (9.7 kg) (50W model)</td>
</tr>
</tbody>
</table>

Receiver Specification: measured by TIA/EIA-603

- Sensitivity 12dB SINAD: 0.25 µV
- Adjacent Channel Selectivity: 85 dB / 79 dB
- Intermodulation: 83 dB / 81 dB
- Spurious and Image Rejection: 90 dB
- Audio Output: 4 W @ 4 Ohms

Transmitter Specification: measured by TIA/EIA-603

- Output Power: 50 / 25 / 10 W (100W optional)
- Duty Cycle: 50%
- Modulation: 16K0F3E, 11K0F3E
- Maximum Deviation: ±5.0 kHz / ±2.5 kHz
- Audio Distortion: < 2.5% @ 1kHz
- Conducted Spurious Emission: 80 dB below carrier

Additional Features

- 6 Dual-function programmable keys
- 47 CTCSS tones / 108 DCS codes encode & decode
- Multi-tone decode
- CW ID Transmitter
- CW Message
- Comander per channel
- D-sub 25 pin accessory connector
- Automatic DC backup switching w/alert
- EIA rack mount size

Accessories

- MH-67A8J: Standard microphone
- MD-12A8J: Desktop microphone
- FP-31: Internal power supply unit (for 50W)
- VPA-9000: 100W Internal power amplifier unit
- FIF-9: 4-Wire line interface

Option Boards

- FVP-25: Voice inversion encryption & DTMF paging
- FVP-35: Rolling code encryption

Duplexer Options

- VXD-60VC: Duplexer VHF 148 - 160 MHz
- VXD-60UD: Duplexer UHF 440 – 470 MHz

*50 Watt only

Specifications are subject to change without notice or obligation.
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