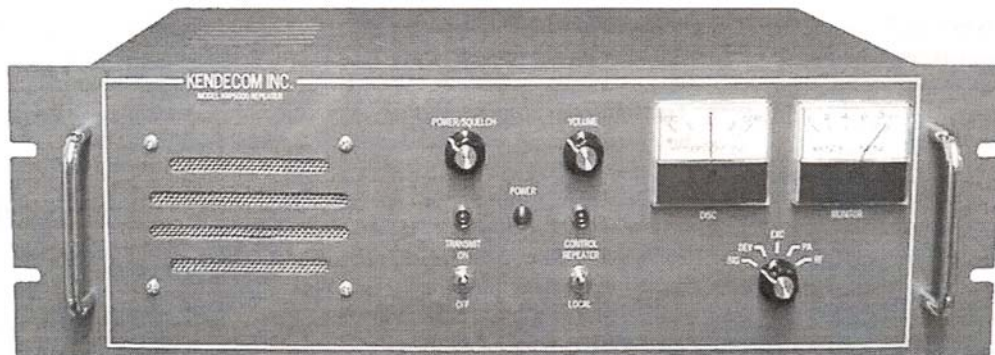


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# KRP-5000 REPEATER

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***Outstanding Performance    Outstanding Value***

Make KRP-5000 the Choice of Communications Professionals

Advanced Communication Systems  
25 Elm Park  
Groveland, MA 01834  
**Phone:** 1-978-372-3442  
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**KRP-5000 is the first choice among communication professionals who know the secrets of performance and value. And the secrets are as easy as 1-2-3.**

1. The heart of the **KRP-5000**, the transmitter and receiver, are designed, built, and field proven as exceptional performers in the toughest repeater environments.
2. Microprocessor technology is taken to the limit with telephone interconnect, sequential tone signaling, CW and voice identifier, site control outputs, and remote programming as standard features.
3. **KRP-5000** capabilities are engineered as a unit, to complement each other for ease of installation, maximum flexibility, high reliability, and outstanding value.

**Look at all the facts, data, and specifications. Talk with the experts. Compare the KRP-5000 with any other repeater at any price. It is no secret, your choice will be the KRP-5000.**

### **Receivers and Transmitters—where performance counts the most.**

Outstanding is the only word for the **KRP-5000** receiver. This is no repackaged mobile receiver—every aspect of the receiver is designed to give exceptional performance in tough repeater service.

Seven large helical resonators in the front end, double balance mixers, and 12-poles of IF filtering making it virtually immune to overload and intermod. Images are drastically reduced through the use of a very high local oscillator frequency. Its precise Schmitt trigger squelch with automatic threshold switching is often called the best in the business. Add to that full metering of the discriminator,

limiter, and modulation level, and you have one terrific receiver.

Transmitter excellence goes far beyond FCC type acceptance requirements. Symmetric audio limiters minimize distortion for clean, natural-sounding audio. A high-voltage TMOS power FET is used in the output stage for high reliability, maximum tolerance to antenna system faults, and low off-frequency residual noise. (Off-frequency transmitter noise is a prime contributor to desense in repeaters.) Multiple tuned, controlled Q circuits and generous amounts of feedback make the transmitter insensitive to temperature and component aging.

Extensive shielding and decoupling are used in both transmitters and receivers to insure temperature insensitive operation. For even greater stability, two-stage voltage

regulation is used on critical circuits. Both units are individually enclosed sub-assemblies with feedthru capacitor isolation on all non-RF leads.

### **Advanced Technology under your control.**

A microprocessor controls the **KRP-5000** and you control the microprocessor. With DTMF access codes you can remotely program every vital repeater function, and have your commands locked into nonvolatile memory so they are remembered even after a power failure. All features are so user-friendly that control is easy and straightforward. Special safeguards prevent unauthorized entry of command access codes.

### **Telephone Interconnect**

The **KRP-5000** contains the most

complete set of telephone interconnect features found on any repeater; autopatch, reverse autopatch, last number redial, and autodial. Autopatch allows repeater users to initiate telephone calls by directly entering the telephone number to be called. For frequently called telephone numbers, the autodial number can contain a full 11 digits to allow long-distance calling. Reverse autopatch allows incoming calls to be answered by the **KRP-5000** and routed to repeater users. Reverse autopatch is most valuable when it is matched to the needs of repeater users, so the **KRP-5000** provides the most flexible reverse autopatch available to meet your exact needs.

### Site Control

**KRP-5000** can help manage other equipment at your site. Eight versatile outputs, readily accessible on the rear panel, can be connected to control other equipment. Each output can be individually turned on and off by remote command, and some outputs can be set to turn off automatically after a prescribed time interval.

Eight-sense input is also available for monitoring other equipment at the site, such as tower light alarms. Status of the sense input can be reported by a voice message on the repeater transmitter.

### Related Products

**KRP-5000 Series B Repeater**—a maximum value repeater. The same great RF with CW identifier and basic operating timers, without microprocessor control, telephone interconnect, paging, and remote programmability.

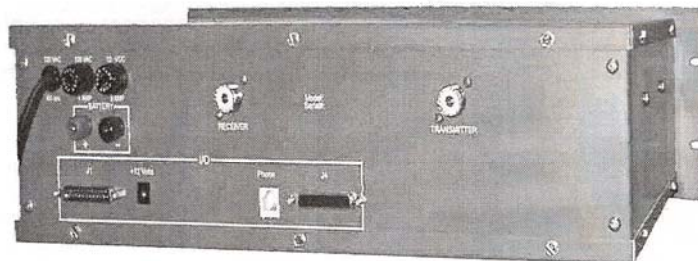
### Options

CTCSS encoder/decoder

Digital voice recorder

Windows Editing Software

DL-1000 audio delay board



## SPECIFICATIONS

### Receiver

Sensitivity	.25 uv (typ) for 12 dB SINAD
Selectivity	-6 dB at 6.5 kHz, -105 dB at 15 kHz, -125 dB at 25 kHz
Image/spurious response	-125 dB image, -90dB spurious
Overload/desense	75000uV at 600 kHz, 100000 uV at 2 mHz (vhf), 75000 uV at 2 mHz (uhf)
R.F.	7 helical resonators, double balanced mixers
I.F.	8-pole crystal filter at 21.4 mHz, 4-pole ceramic filter at 455 kHz
Squelch	Schmitt trigger with 6 dB hysteresis, automatic threshold switching

### Transmitter

Power output	30-35 watts (2 meters), 20-25 watts (220), 10-15 watts (uhf), TMOS power FET output stage
Audio response	6 dB/octage pre-emphasis (EIA)
Stability	.0005%, .00025% (uhf commercial US)

### Functions

Telephone Interconnect	Autopatch, reverse autopatch, redial, autodial (300 numbers)
Site Control	8 logic outputs, 8 logic inputs
Power	120 VAC or 12 VDC (reduced output)
Temperature	-30 to +50 C
Cabinet	19-inch rack mount, medium blue color
Panel Controls	Metering, speaker, volume, squelch, local/remote select

### Warranty

2 years parts and labor

**Prices and specifications are subject to change without notice.**

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