

RepeaterMan



The Model 37 includes the same superb CTCSS tone decoding and repeat audio quality found in other Zetron repeater controllers. Zetron's exclusive ToneLock CTCSS tone decoding ensures that weak or over-modulated signals don't drop out.

FEATURES

- Converts any duplex-capable base or mobile into a repeater
- Carrier, one-or two-user CTCSS repeater control
- Fully remote programmable using DTMF
- Zetron exclusive ToneLock CTCSS tone decoding
- Programmable Morse code ID and courtesy beep
- 50 CTCSS tone set standard
- Cross tone capability standard
- Programmable timeout and transmitter hang timers
- Squelch tail elimination
- Superb repeat audio quality

INTRODUCTION

The Zetron Model 37 RepeaterMan repeater controller makes repeater control simple and economical, without sacrificing traditional Zetron quality or performance. The Model 37 and a pair of low cost simplex mobiles or a single duplex-capable radio create a sophisticated one or two-user repeater. The Model 37 can also be used to add a second user to an existing single user repeater.

The Model 37 also includes a special 50 CTCSS tone table, offering compatibility with nonstandard or obsolete CTCSS tones. Features like Morse code identification and courtesy tones for each user, programmable system timers, cross tone capability, and squelch tail elimination all add up to the best value in small repeater controllers.

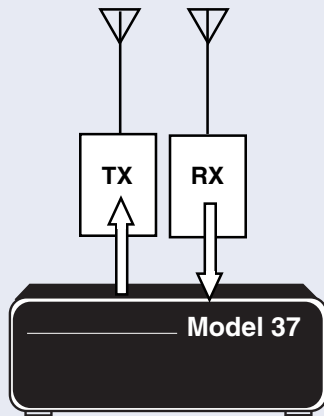
The Model 37 RepeaterMan is ideal for use in industrial and business applications, agricultural radio systems, paging system link repeater control, and emergency communications systems.

Industrial radio systems can now segregate users into two distinct groups on an existing single user radio system. A typical application might be an industrial facility's security department and building maintenance department sharing a common radio channel. Rather than listen to each department's radio traffic, the plant's security department is placed on one CTCSS tone, while the plant's maintenance staff operate on the second CTCSS tone.

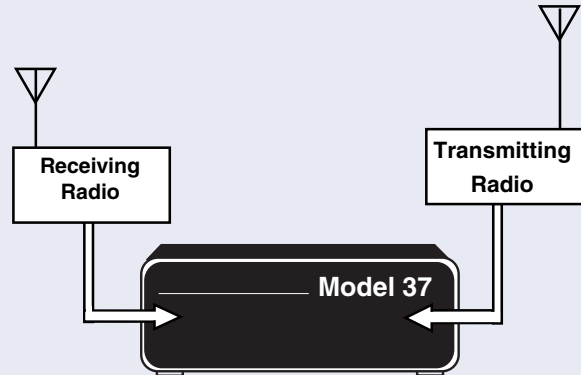
The Model 37 is also an excellent choice for low cost shared repeaters for small towns or remote locations. Using the Model 37, a radio dealer can afford to offer community repeater service in areas where the higher cost of a 60 or 99 user tone panel would not have been justified.

Agricultural users who have small single user repeater systems will appreciate how easily and inexpensively a second user can be added to their systems. Public safety, emergency services, and governmental radio users will recognize the ease with which an emergency repeater can be assembled from a pair of synthesized mobile radios, providing in-band or cross band links quickly.

Operation with a Duplex-Capable Radio



Operation with a Pair of Mobile Radio



SPECIFICATIONS

GENERAL

Power	11-16 Volts DC @ 75 mA standby and 100 mA transmit
Temperature	0 to 60 degrees Celsius
Size	5.5"W x 6.25"D x 1.4"H
Weight	1.0 pound

RADIO INTERFACE

PTT	FET pull to ground
COR	Internal or external COR indication, adjustable level and polarity
TX Output	-40 to +6 dBm. Hi/Lo range selection 1K ohm output impedance
Rx Output	-40 to +10 dBm. Hi/Lo range selection 50K ohm input 25K ohm input impedance

CTCSS

Frequency	67.0 to 254.1 Hz
Tone Set	50 tones including all EIA standard tones
Decode	ToneLock CTCSS decoding provides reliable CTCSS decoding to below 3 dB SINAD
Bandwidth	1.5%

PROGRAMMABLE ITEMS

Repeat Disable	Remote repeater enable or disable
Carrier Repeat	Carrier-only repeat enable/disable
Tx Hold Time	0 to 9 seconds in 1 second steps
Tx Timeout Timer	1 to 9 minutes in 1 minute steps
Station ID	ID mode, ID interval, 0 to 8 characters
CTCSS in Tail	Enable CTCSS during transmitter hold time
CTCSS RX Tone	CTCSS receive tone. Selectable per user
CTCSS TX Tone	CTCSS transmit tone. Selectable per user
Courtesy Tone	On/off per user
Tone Frequency	500, 1000, 1500 Hz selectable

ADDITIONAL SPECIFICATIONS

Indicators	Power, carrier, transmit, status
Programming	Programmable using DTMF equipped radio
Data retention	EEPROM - data retention for more than 10 years without power

For more information on this and other Zetron products, contact:

