



Radio Remote Control

RXC-2000

REMOTELY CONTROL ANYTHING USING TWO-WAY RADIO SIGNALS. RECEIVER · DECODER · CONTROLLER



Ready to go to Work

Mounted in an all weather case, the RXC-2000 is ready to receive and decode up to 10 tone paging codes and 10 DTMF codes.

Paging codes can be two-tone, single tone, all call or burst, and can have any timing from .4 seconds per tone up to 25 seconds each.

Freely mix and match any formats you need to decode. The RXC-2000 is fully programmable so you can have different "A" tones for each action, different "B" tones, varying tone times, or a combination of them all.

It can also encode DTMF and Two-tone paging signals as well.

Inputs / Outputs

With 8 input switches and 5 heavy-duty output relays, the RXC-2000 can control any application.

Programming

Control of the output relays is performed by the software program stored in the on-board EEPROM memory.

The program controls the on/off times of relays, plus it can latch, flash or interlock any of the relays and store information.

Programs are easily customized on-site with a personal computer or by customer support at the factory.

Messages

A large LCD screen is standard on the RXC-2000 for operator prompts, messages, frequency information, DTMF code display, etc.

DTMF "Wildcard"

The RXC-2000 decodes all 16 DTMF characters, plus it allows the use of "wildcard", "include", and "exclude" characters in any DTMF position.

One Tough Unit

Lightning protection, a switching filtered power supply, high current relays, metal backplane, durable multi-pin connectors and a heavy steel cabinet with baked-on epoxy finish make the RXC-2000 ready for a long service life.

Commercial Receiver

Excellent sensitivity and high selectivity provide the punch to perform in rural areas as well as high radio traffic areas of urban settings.

It's 16 synthesized channels can be programmed for the standard 25 KHz radio channels or the newer 12.5 KHz channels, all without the need to perform any retuning.

Call Today

Contact us today for more information on putting this and other members of our dependable family of communication controls and accessories to work on your application.

Applications

- Siren Systems
- In-Plant Warning
- Pump Activation
- Lighting Control
- Fire Station Facilities
- Control Systems
- Agricultural
- Industrial Plants
- Police & Sheriff's Offices
- Text / Map Display
- Power System Control
- Remote Site Switching
- Status Control
- Paging Signal Verification

1-651-463-5360

www.SirenCentral.com

General

V_{SUPPLY}: 13.8 vdc, 115 vac, 230 vac
 I_{SUPPLY QUIESCENT}: 230 ma
 Weight: 14 lbs
 Size, NEMA-4 case: 12 x 10 x 5 inches, Steel
 Power Connector: Terminal with isolation barriers.

Inputs

Number: 8, Logic level active low
 Vin: Internal pullup, 5vdc max
 Debounce: 150 msec
 t_{SCAN}: < 2 msec

Outputs

Number: 8 5 Heavy-duty relay
 3 Solid-State FET
 V_{OUT max}: 230 vac per relay
 I_{OUT max}: 6 amps per relay
 Relay Contacts Single-Pole Double-Throw

Receiver

Frequencies, MHz VHF 148-174, UHF 450-512*
 Selectivity -60 @ 25KHz, -50 @ 12.5 KHz
 Sensitivity VHF .35 uv, UHF .50 uv
 Spurious & Image Rejection -70 db (100 KHz – 4 GHz)
 Input Impedance 50 ohms
 AF Distortion < 5%
 Rx Response Time < 16 Msec.
 < 40 Msec.
 Squelch Attack
 Squelch Decay 5 to 20 Msec.
 *UHF Bands. 440-470, 470-490, 490-512 MHz

Serial Comm.

Baud 2400
 Parity Even
 Bit 8

DTMF Decode

Mark_{MIN}: 18 msec
 Space_{MIN}: 18 msec
 Sensitivity: 200 mv p-p, min
 4 Vp-p, max
 Twist_{MAX}: +/- 8 db
 Interword: 0 to 25.5 sec
 Length: 36 char. max
 Memory_{MAX}: 268 char. max

Tone Decode

Accuracy 0.2%
 Selectivity, adj. 0 to 5000 Hz
 Intertone_{MAX}: 300 msec.
 Range 210 – 5000 Hz
 Detect_{MIN}: 600 msec
 Detect_{MAX}: 25.5 seconds

Signal Encode

DTMF
 Mark / Space_{MIN} 5 msec.
 Mark / Space_{MAX} 25.5 seconds
Two-tone
 Formats Motorola, GE, Reach,
 Bramco & custom
 Tone Length_{MIN} < 100 msec
 Tone Length_{MAX} Infinite
 Encode Frequencies 210 – 5000 Hz

Memory

2k, EEPROM

User Switch

16 position, BCD

LCD Driver

Width: 16 to 40 Character
 Lines: 1, 2 or 4

Available Accessories include...

- DTMF Keypad Microphones for most Mobile and Portable Radios.
- Time Clocks.
- External Ground Plane and Vandal Resistant Antennas.

