

ALERT AREAS BY TWO-WAY RADIO SIGNALS. RECEIVER · DECODER · CONTROLLER



Inputs / Outputs

With 8 input switches and 5 heavy-duty output relays, the RXC-2080 can control any application. Aux input and output headers allow direct integration to other equipment.

DTMF “Wildcard”

The RXC-2080 decodes all 16 DTMF characters and is fully programmable to understand individual, sub-group and group commands.

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. It can also latch, flash or interlock any of the relays and store information for retrieval.

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

One Tough Unit

Lightning protection, a switching filtered power supply, high current relays, metal backplane, durable multi-pin connectors and corrosion resistant poly cabinet make the RXC-2080 ready for a long service life.

Commercial Receiver

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

It's synthesized receiver can be programmed for the standard 25 KHz radio channels or the newer 12.5 KHz channels.

Switching Power Supply

The heavy-duty switching power supply automatically adjust itself to match AC power voltages to the DC demand.

In addition to supplying the power for it's own use, the extra power of the 8 amp power supply can operate other devices. Such as optional lights and strobes to increase effectiveness.

Call Today

For more information or to speak with an applications engineer.

Ready to go to Work

Mounted in an all weather case, the RXC-2080 is ready to alert people in localized areas which may be remote from other warning signals, or in areas where very large-scale warning systems are not appropriate.

Freely mix and match any DTMF formats you need to decode. The RXC-2080 is fully programmable. You can program individual codes to be understood by each unit in addition to group and sub-group signaling.

Messages

A large LCD screen is standard on the RXC-2080 for operator prompts, messages, frequency information, or DTMF code display.

High Power Siren

A 30 Watt siren and speaker are integrated into and securely attached to the case of the RXC.

The speaker's ABS poly case is weather and dent resistant.

Applications

- In-Plant Warning
- Military Posts
- Pump & Motor Warning
- Fire Station Facilities
- Control Systems
- Golf Courses
- Rail Yards

General

V_{SUPPLY}: 13.8 Vdc, 95 Vac to 250 Vac
 I_{SUPPLY Q}: 2amp Amp AC
 I_{SUPPLY LOAD: MAX}: 5 Amps, 12 Vdc.
 Weight: 14 lbs
 Size, NEMA-4 case: 11.8 x 11.8 x 7.3 inches, Poly

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}: 120 Vac per relay
 I_{OUT max}: 6 Amps per relay
 Relay Contacts Single-Pole Double-Throw

Receiver

Frequencies, MHz VHF 150-174, UHF 450-470
 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.

Serial Comm.

Baud 4800
 Parity Even
 Bit 8

Siren Driver 30 Watt

DTMF Decode

Mark_{MIN}: 20 msec
 Space_{MIN}: 20 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 4000 Hz
 Intertone_{MAX}: 300 msec.
 Range 250 – 4000 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 250 – 4000 Hz

Memory 9k, EEPROM

User Switch 16 position, BCD

LCD Driver

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

Available Accessories include...

- Battery Backup.
- Pole Mounting Brackets.
- External Ground Plane and Vandal Resistant Antennas.
- Strobe Lights.
- Solar Power.

