



R-2 1 to 32 Channel Receiver

Cost-effective factory preset version of our flagship R-1!



NEW

FEATURES

- **Modular Outputs**
1 to 32 factory installed outputs can be digital, proportional, ratiometric, or unamplified. Ideal for controlling electrical, hydraulic, and pneumatic equipment.
- **Environmentally Sealed**
Environmentally sealed to IP67 for harsh environments.
- **License Free**
Pre-certified FCC - no licence required
- **External Antenna**
Flexible antenna can be installed away from obstructions to improve range.
- **Connector and Cable Included**
Receiver features environmentally sealed Deutsch connector with mating connector pigtail cable.
- **OEM programming tool (option)**
Programming tool available for fine-tuning machine performance.

OPERATION

Radio Operation

Up to 32 factory installed outputs can be any combination of digital (bang/bang), proportional current, ratiometric, or unamplified. Can directly drive a wide range of coils and other DC loads.

Factory configurable

Optional programming tool allows OEM's to make adjustments to fine-tune machine performance.

Programmable Logic

Receiver can be factory programmed to perform a wide range of logical functions and sequences.

Pushbutton/Tether Learn

Transmitter and receiver are "married" to permit operation of multiple radios in the same area without cross-control. Transmitters and receivers can be married in the field by pushing a button in the receiver or momentarily connecting the optional tether cable.

Safety Features

Receiver automatically detects when transmitter is out of range, and returns outputs to a safe condition. Normally closed E-Stop output also available. Monitored receiver electronics disables outputs on fault condition.

APPLICATIONS

- Track machines
- Wood chippers and grinders
- Crane control
- Sawmill equipment
- Conveyors
- Earth compactors
- Rock crushers
- Robotics
- Remote process control
- Winch systems
- Specialty off-highway equipment

ORDERING INFORMATION

| PART # | DESCRIPTION |
|--------|---------------------------------------|
| RX2 | Standard range universal receiver kit |
| RE2 | Extended range universal receiver kit |
| RZ2 | International universal receiver kit |

SPECIFICATIONS

General

Power Requirement 10-30vdc, 500mA nominal + power to loads
 Fuses Self-resetting type. Outputs protected

Radio

Frequency 902-928MHz, Unlicensed ISM band standard models
 2.4-2.4835GHz, Unlicensed ISM band international option
 Type Frequency hopping spread spectrum
 Frequency Control Direct FM
 FCC id OUR9XCITE: Standard range
 OUR9XTREAM: Extended range
 OURXBEE: International version

Receiver

Sensitivity -104dBm
 RF Connector BNC
 Output Types Digital, proportional, ratiometric, or unamplified
 Digital Outputs Solid state relay, provides supply voltage up to 5-amp
 Proportional Current Outputs Adjustable PWM up to 5-amp
 Ratiometric Outputs 25% to 75% of supply voltage, 100mA max
 Unamplified Outputs Customer specified (0-10v, typical)
 Field Wiring 40-position Deutsch connector with 6' pigtail wiring

Enclosure

IP67 fiberglass

Environmental

Storage -40°C to 85°C
 Operating -10°C to 60°C

PROGRAMMING



| | |
|--|---|
| <pre> Frequency Select Channels 0 - 3 Output Frequency 3 0 0 0 Hz </pre> | <p>PWM FREQUENCY ADJUST SCREEN <i>For current PWM proportional outputs only</i> Select CHANNEL in banks of four Adjust VALUE to valve specifications</p> |
| <pre> Status = In Range Address 0 0 0 0 0 0 1 Switch 0 0 0 0 0 0 0 Analog - - - - - - - </pre> | <p>TRANSMITTER DIAGNOSTICS SCREEN <i>Displays transmitter status and address</i> <i>Displays function codes for switches</i> <i>Displays status of proportional controls</i></p> |
| <pre> INPUT 16 Pin 05 ^ - - - - - 0 . 5 2 . 5 4 . 5 N ■■■■■■ v </pre> | <p>INPUT DIAGNOSTICS SCREEN <i>Select input CHANNEL (if equipped)</i> <i>Bar graph display shows input voltage</i></p> |
| <pre> Out 01 Pin 11 ^ Left Track REV C OUTPUT = 0 . 0 H ■■■■■■■■■■■■■■ v </pre> | <p>OUTPUT PROGRAMMING SCREEN <i>Select output CHANNEL</i> <i>Select SETTING</i> <i>Adjust VALUE of setting</i> <i>Bar graph display shows output level</i></p> |
| <pre> 0 + OUTPUTS + 15 - - - - - 16 + + + 31 - - - - - </pre> | <p>OUTPUT STATUS SCREEN <i>Bar graph display shows status of all outputs</i></p> |

Optional programming tool allows OEM's to fine-tune receiver performance.
 Note: Must be ordered with R-2 receiver to ensure compatible receiver programming.