R–2 1 to 32 Channel Receiver

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

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
- Rock crushers
- Robotics
- Remote process control
- Winch systems
- Specialty off-highway equipment

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>RX2</td>
<td>Standard range universal receiver kit</td>
</tr>
<tr>
<td>RE2</td>
<td>Extended range universal receiver kit</td>
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<tr>
<td>RZ2</td>
<td>International universal receiver kit</td>
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### 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
- **Sensitivity**: -104dBm

**Receiver**
- **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**: -40ºC to 85ºC
- **Operating**: -10ºC to 60ºC

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### PROGRAMMING

**PWM FREQUENCY ADJUST SCREEN**
For current PWM proportional outputs only
Select CHANNEL in banks of four
Adjust VALUE to valve specifications

**TRANSMITTER DIAGNOSTICS SCREEN**
Displays transmitter status and address
Displays function codes for switches
Displays status of proportional controls

**INPUT DIAGNOSTICS SCREEN**
Select input CHANNEL (if equipped)
Bar graph display shows input voltage

**OUTPUT PROGRAMMING SCREEN**
Select output CHANNEL
Select SETTING
Adjust VALUE of setting
Bar graph display shows output level

**OUTPUT STATUS SCREEN**
Bar graph display shows status of all outputs

Optional programming tool allows OEM’s to fine-tune receiver performance.

Note: Must be ordered with R-2 receiver to ensure compatible receiver programming.