RC–1 Complete T-1 generic system

Belly pack with 6 proportional paddle joysticks - great for cranes!

OPERATION

Included wire harness, tether cable, and antenna kit not pictured.

Radio Operation
Outdoor range of 500 feet or more. Frequency hopping spread spectrum (FHSS) transceiver uses two-way communication for maximum reliability and safety. Operates on 2.4-2.4835GHz (International) unlicensed ISM band. No end-user license required.

Controls
Features 6 single-axis joystick paddles, 2 pushbuttons, and a mushroom E-Stop. Each paddle controls 2 high-current PWM outputs to drive proportional controls directly. A master output is energized whenever any of the paddles are operated. On/off outputs are energized by the pushbuttons.

Tuning
Additional min/max pushbuttons on the transmitter allow each paddle joystick to be trained to specific minimum and maximum outputs, enabling fine control.

Transmitter Matching
Momentarily connecting transmitter to receiver using tether cable allows transmitter to “learn” receiver address. Matching the transmitter to the receiver prevents cross communication in applications where multiple radios are in use. This feature also allows the transmitter to be replaced without changing the receiver.

Batteries
Operates from 3 x “D” cell batteries. Rechargeable types can also be used. Batteries are easily accessible.

FEATURES

- Complete System - Ready to use
  System includes belly-pack T-1 transmitter, receiver, wire harness, tether cable, antenna kit, and label sheet of popular functions for user customization.

- Rugged Construction
  Environmentally sealed for harsh off-highway applications.

- Tether
  Tether cable allows transmitter to operate without batteries. Also allows transmitter to “learn” receiver address.

- License Free
  Pre-certified FCC - no license required.

- Long-Range Reliability
  Up to 500 feet+ range (line of sight). Monitored radio link keeps equipment under control.

- Standard Batteries
  Operates from standard “D” cell alkaline or rechargeable batteries. No downtime waiting for specialty battery packs to charge.

APPLICATIONS

- Crane control
- Track vehicles
- Wood chippers and grinders
- Winch systems
- Specialty off-highway equipment

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>RC-1</td>
<td>Complete T-1 belly pack system. System includes: Transmitter, Receiver, Cable Harness, Tether Cable, Antenna Kit, Label Sheet.</td>
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</tbody>
</table>

For customized versions, please call or visit our website.
## SPECIFICATIONS

### T-1 TRANSMITTER

<table>
<thead>
<tr>
<th><strong>Transmitter</strong></th>
<th><strong>Frequency</strong></th>
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</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>2.4-2.4835GHz, Unlicensed ISM band</td>
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<table>
<thead>
<tr>
<th><strong>Type</strong></th>
<th>Frequency hopping spread spectrum</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency Control</strong></td>
<td>Direct FM</td>
</tr>
<tr>
<td><strong>FCC id</strong></td>
<td>OURXBEE</td>
</tr>
<tr>
<td><strong>Range (line of sight)</strong></td>
<td>500 feet</td>
</tr>
<tr>
<td><strong>RF Power Output</strong></td>
<td>60mW (100mW EIRP)</td>
</tr>
<tr>
<td><strong>Battery Type</strong></td>
<td>3 “D” size alkaline or rechargeable</td>
</tr>
<tr>
<td><strong>Battery Life (Alkaline)</strong></td>
<td>Standby, 40 hrs; Transmit, 16 hrs</td>
</tr>
<tr>
<td><strong>Controls</strong></td>
<td>6 paddles, 2 pushbuttons, mushroom E-stop, min/max buttons</td>
</tr>
<tr>
<td><strong>Led Indicator</strong></td>
<td>Flashing = normal; Double blink = battery low</td>
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#### Enclosure

- **Belly Pack**: High-impact polystyrene, UL94HB
  - Standard: 7-3/4" L x 5-1/4"W x 6-1/2"D
- **Sealing**: IP65

#### Environmental:

- **Storage**: -40ºC to 85ºC
- **Operating (Standard)**: -25ºC to 70ºC

### R-4 RECEIVER

#### General

- **Power Requirement**: 10 to 30vdc, 500mA nominal + power to loads
- **Fuses**: 15-amp inline mini blade fuse. Outputs protected

#### Radio

<table>
<thead>
<tr>
<th><strong>Type</strong></th>
<th>Frequency hopping spread spectrum</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency</strong></td>
<td>2.4-2.4835GHz, Unlicensed ISM band international option</td>
</tr>
<tr>
<td><strong>FCC id</strong></td>
<td>OURXBEE: International version</td>
</tr>
<tr>
<td><strong>Sensitivity</strong></td>
<td>-104dBm</td>
</tr>
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#### Receiver

- **RF Connector**: BNC
- **Output Types**: 12 proportional PWM current, 4 digital (on/off)
- **Digital Outputs**: Solid state relay, provides supply voltage up to 5-amp
- **Proportional Current Outputs**: Adjustable PWM up to 5-amp
- **Field Wiring**: 2 x 12-pin DTM connector with 6’ pigtail cable

#### Enclosure

- **Enclosure**: Nylon 6/6 black, IP66
  - Approximate size: 5.24" L x 4.63"W x 1.48"D

#### Environmental

- **Storage**: -40ºC to 85ºC
- **Operating**: -40ºC to 60ºC