T–1-XL Large Belly Pack Transmitter

**Fully Customizable Controls**

**FEATURES**

- **Long-Range Reliability**
  Up to 1,500 feet+ range (line of sight). Monitored radio link keeps equipment under control. IR version available.

- **Customizable**
  Transmitter is available with toggle switches, joysticks, potentiometers, paddles, displays, or combinations. Choose the ideal combination of controls for your application.

- **Rugged Construction**
  Environmentally sealed for harsh off-highway applications. Ex rated intrinsically-safe models available.

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

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

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

**OPERATION**

**Radio Operation**
Models available with outdoor range of 1500 feet or more! Operates on 902-928MHz (USA) or 2.4-2.4835GHz (International) unlicensed ISM band. No end-user license required.

**Controls**
Many combinations of toggle switches, joysticks, potentiometers, paddles, and LCD are possible to customize transmitter functions. Use the product configurator to specify functions and labeling. Every transmitter ships with custom engraved front panel and user specified controls.

**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. Internal battery charger available. Batteries are easily accessible.

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>TN1-XL</td>
<td>Standard range large belly pack transmitter</td>
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<tr>
<td>TE1-XL</td>
<td>Extended range large belly pack transmitter</td>
</tr>
<tr>
<td>TZ1-XL</td>
<td>International large belly pack transmitter</td>
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<tr>
<td>TR1-XL</td>
<td>Infrared large belly pack transmitter</td>
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Add “-IS” suffix for intrinsically safe version. Consult factory.
**SPECIFICATIONS**

**Transmitter**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Standard Range</th>
<th>Extended Range</th>
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</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>902-928MHz, Unlicensed ISM band standard models</td>
<td>2.4-2.4835GHz, Unlicensed ISM band international option</td>
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<tr>
<td>Range (line of sight)</td>
<td>Standard range = 500 feet</td>
<td>Extended range = 1500 feet</td>
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<tr>
<td>RF Power Output</td>
<td>Standard range = 60mW</td>
<td>Extended range = 100-250mW</td>
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<tr>
<td>Battery Type</td>
<td>3 &quot;D&quot; size alkaline or rechargeable</td>
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</tr>
<tr>
<td>Battery Life (fully charged)</td>
<td>Standard range = Standby, 80 hrs; Transmit, 35 hrs</td>
<td>Extended range = Standby, 20 hrs; Transmit, 8 hrs</td>
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<tr>
<td></td>
<td>International = Standby, 15 hrs; Transmit, 6 hrs</td>
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<tr>
<td>Controls</td>
<td>User specified toggles, joysticks, potentiometers, or paddles</td>
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<tr>
<td>Led Indicator</td>
<td>Flashing = normal; Double blink = battery low</td>
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**Enclosure**

- **Belly Pack**
  - Standard: 7-3/4" L x 5-3/4"W x 7-1/2"D; PC ABS
  - Jumbo: 11-1/4" L x 5-1/2"W x 6-1/2"D; High-impact polystyrene, UL94HB

**Environmental:**

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

**APPLICATIONS**

- Oil field
- Mining
- Marine
- Track vehicles
- Wood chippers and grinders
- Crane control
- Sawmill machines
- Rock crushers
- Winch systems
- Specialty off-highway equipment