Multi-Function Belly Pack Transmitter for hazardous locations

OPERATION

Controls
Transmitters are built-to-suit, and may be equipped with joysticks, potentiometers, paddles, pushbuttons, switches, and other customer-specificed controls. Take time to familiarize the operation and arrangement of the controls before operating equipment.

Batteries
Operates from 3 x “D” cell batteries. Only Duracell MN1300 type may be used to maintain certification. Do not change batteries in hazardous location. Batteries are accessible by a cover on the bottom of the belly pack. To ensure maximum battery life, be sure to turn the transmitter OFF when not in use. Remove batteries prior to shipping or storing transmitter.

Transmitter/Receiver Matching
Transmitters and receivers are shipped from the factory as matched pairs. If a new transmitter is to be used, it must be trained to operate the receiver.

Training procedure:
Transmitters with tether cables:
1. Remove transmitter to non-hazardous location.
2. Connect transmitter to receiver using tether cable provided.
3. Operate transmitter to verify tether is connected.
4. Disconnect tether, and resume normal operation.

Care and Handling
Failure to follow care and handling instructions will void the warranty and could result in unsafe equipment operation.

Clean transmitter gently with a damp cloth or dry, compressed air. Do not immerse transmitter in water, or spray with hose. Do not store outside.

Do not drop transmitter or otherwise subject transmitter to physical shock.
Do not expose transmitter to extreme temperatures.
Do not open transmitter enclosure. Transmitter contains no user serviceable parts.

IMPORTANT!
Read this manual completely before operating system.

Keep this manual available for future reference.

Make sure the area is safe for operating equipment before turning power on or starting equipment.

If you encounter any problem or malfunction, discontinue use immediately, and contact your equipment dealer for service or replacement parts.

CAUTION
Improper operation of these controls could cause damage to equipment. Do not allow anyone to operate this equipment before completely reading all manuals.

NOTICE
Miratron, Inc. controls are not intended for life or safety applications. Miratron, Inc. shall not accept responsibility for installation, application, or safety of machine or systems which utilize Miratron, Inc. controls.
## SPECIFICATIONS

### Transmitter

<table>
<thead>
<tr>
<th>Frequency</th>
<th>902-928MHz, Unlicensed ISM band standard models</th>
<th>2.4-2.4835GHz, Unlicensed ISM band international option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range (line of sight)</td>
<td>Standard range = 500 feet</td>
<td>Extended range = 1500 feet</td>
</tr>
<tr>
<td>RF Power Output</td>
<td>Standard range = 60mW</td>
<td>Extended range = 100-250mW</td>
</tr>
<tr>
<td>Battery Type</td>
<td>3 “D” size alkaline, Duracell MN1300 ONLY</td>
<td></td>
</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>
</tr>
<tr>
<td></td>
<td>International = Standby, 15 hrs; Transmit, 6 hrs</td>
<td></td>
</tr>
<tr>
<td>Controls</td>
<td>User specified toggles, joysticks, potentiometers, or paddles</td>
<td></td>
</tr>
<tr>
<td>Led Indicator</td>
<td>Flashing = normal; Double blink = battery low</td>
<td></td>
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</tbody>
</table>

### Enclosure

- **Belly Pack**: High-impact urethane, Polane urethane paint finish
- **Plated or powder coated steel guard plates**
- **Stainless steel, rubber insulated hand rails**

### Environmental

- **Sealing**: IP65

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**FM Certificate number**: 3035340

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**Miratron, Inc.** Portland, Oregon USA

Model: Txy-IS
Configuration: CMD16-zzzz-IS
Serial #: nnnnnn

Intrinsically Safe for:
- Class I, Division 1, Groups C,D T2D
- Class I, Zone 0, AEx ia IIB
- Ta=-40°C to 60°C; IP65

Conditions of use:
1. Only Duracell battery cell Type MN1300, size D cells 3, 1.5V may be used.
2. Batteries shall only be replaced in an unclassified location.