



T-1-IS Operating Guide

Multi-Function Belly Pack Transmitter for hazardous locations



Photo for reference only. Actual product appearance will vary.

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.

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.

OPERATION

Controls

Transmitters are built-to-suit, and may be equipped with joysticks, potentiometers, paddles, pushbuttons, switches, and other customer-specified 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.

See additional documentation or consult factory for other radio training options.

SPECIFICATIONS

Transmitter

Frequency	902-928MHz, Unlicensed ISM band standard models 2.4-2.4835GHz, Unlicensed ISM band international option
Range (line of sight)	Standard range = 500 feet Extended range = 1500 feet
RF Power Output	Standard range = 60mW Extended range = 100-250mW
Battery Type	3 "D" size alkaline, Duracell MN1300 ONLY
Battery Life (fully charged)	Standard range = Standby, 80 hrs; Transmit, 35 hrs Extended range = Standby, 20 hrs; Transmit, 8 hrs International = Standby, 15 hrs; Transmit, 6 hrs
Controls	User specified toggles, joysticks, potentiometers, or paddles
Led Indicator	Flashing = normal; Double blink = battery low
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
Sealing	IP65

Enclosure

Environmental

FM Certificate number: 3035340

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.