

T-1 Operating Guide

Multi-Function Belly Pack Transmitter





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-specificed controls. Take time to familiarize the operation and arrangement of the controls before operating equipment.

Batteries

Operates from 3 x "D" cell batteries accessible by a cover on the bottom of the belly pack. No tools are needed to replace batteries. To ensure maximum battery life, be sure to turn the transmitter OFF when not in use. Remove batteries prior to shipping or storing transmitter.

If rechargeable batteries are used, NiMH type are recommended. Some models feature internal battery chargers. Refer to supplemental instructions regarding use of internal charger.

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. Connect transmitter to receiver using tether cable provided.
- 2. Operate transmitter to verify tether is connected.
- 3. Disconnect tether, and resume normal operation.

Transmitters without tether cables:

- 1. Power on transmitter and receiver.
- 2. Press "LEARN" button on receiver.
- 3. Operate transmitter normally.

MIRATRON 866-417-5008

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www.miratron.com

SPECIFICATIONS

	-	002 020111 11 11 11511 1 1 1 1 1 1
Transmitter	Frequency	902-928MHz, Unlicensed ISM band standard models
		2.4-2.4835GHz, Unlicensed ISM band international option
	Туре	Frequency hopping spread spectrum
	Frequency Control	Direct FM
	FCC id	OUR9XCITE: Standard range
		OUR9XTREAM: Extended range
		OURXBEE: International version
	Range (line of sight)	Standard range = 500 feet
		Extended range = 1500 feet
		International = 500 feet
	RF Power Output	Standard range $= 5 \text{mW}$
		Extended range = 100 mW
		International = 60mW (100mW EIRP)
	Battery Type	3 "D" size alkaline or rechargeable
	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
Enclosure	Belly Pack	Standard: 7-3/4" L x 5-3/4"W x 7-1/2"D; PC ABS
	Jumbo: 1	11-1/4″ L x 5-1/2″W x 6-1/2″D ; High-impact polystyrene, UL94HB
	Sealing	IP65

-40°C to 85°C

-10°C to 60°C

Troubleshooting:

Environmental

<u>ISSUE</u>	<u>SOLUTIONS</u>
Transmitter not working. LED not on or blinking.	Install new batteries.
	Make sure power switch is on.
Transmitter not working. LED on or blinking.	Make sure E-Stop switch is out (if equipped.)
	Install new batteries.
	Make sure receiver is powered.
	Check receiver fuse.
	Make sure transmitter is in range of receiver.
	Make sure transmitter and receiver are matched.
Poor range.	Check receiver antenna and cable for loose connections or damage.
	Install new batteries.
	Obstructions, interference, and adverse weather can affect range.
One or more functions do not operate properly.	Verify receiver wiring is correct.
	Verify control device is operational (solenoid valve, pump, etc.)
	Inspect transmitter, receiver, and cabling for damage. (Do not open.)
	Some control systems feature special program logic that can disable functions under certain conditions. Consult factory for specific details.

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Storage

Operating