



T-7/T-7-SM Operating Guide

Rugged Keypad Remote Control



Photo for reference only. Customer specific overlay shown.

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 custom labeled, and may be equipped with a "SHIFT" or "ALT" button to provide multiple functions for each button. Take time to become familiar with the operation and arrangement of the buttons before operating equipment.

Batteries

The T-7 transmitter operates from a standard 9-volt battery. Alkaline batteries generally provide longest life. If rechargeable batteries are used, NiMH type are recommended. T-7 battery is accessible by removing the screws that secure the cover plate on the back of the transmitter. 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:

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

*Receiver models without learn button feature will have alternative matching procedure. Consult factory for details.

SPECIFICATIONS

Transmitter

Frequency

TZ7: 2.4-2.4835GHz, Unlicensed ISM band

TF7: 433.92MHz

Range

TZ7: 300' line of sight

TF7: 100' line of sight

Battery Type

9-volt alkaline

Led Indicator

Flashing or Solid (application specific) = normal

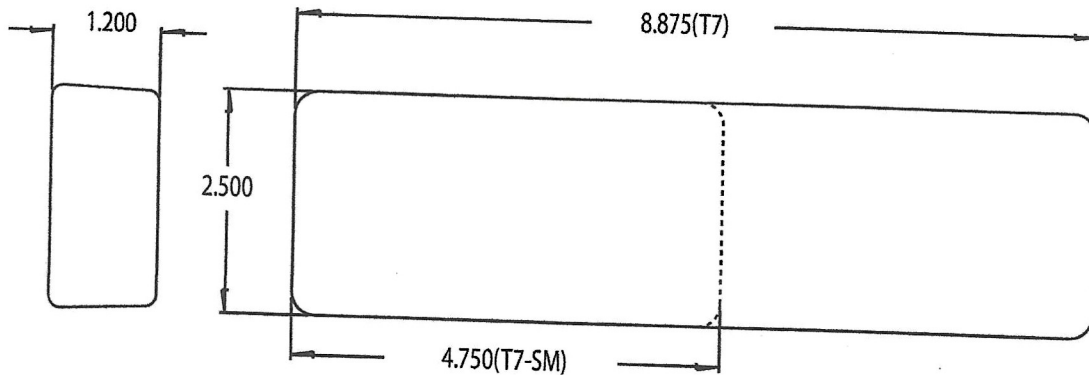
Storage

-40°C to 85°C

Operating

-10°C to 60°C

Environmental



Troubleshooting:

ISSUE	SOLUTIONS
Transmitter not working. LED not on or blinking.	<ul style="list-style-type: none"> Install new batteries. Make sure power switch is pressed (if applicable)
Transmitter not working. LED on or blinking.	<ul style="list-style-type: none"> Install new battery. 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.	<ul style="list-style-type: none"> Check receiver antenna and cable for loose connections or damage. Install new battery. Obstructions, interference, and adverse weather can affect range.
One or more functions do not operate properly.	<ul style="list-style-type: none"> 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.



R-6 Operating Guide

1 to 3 and 4 to 10 Channel Potted Receivers



OPERATION

General

Receivers are factory configured and programmed for each application. Refer to the wiring diagram for your specific system for receiver wiring and output information.

Transmitter/Receiver Matching

Receiver can "learn" a new transmitter in the field by operating 2 transmitter functions simultaneously within 10 seconds of powering receiver on.

SPECIFICATIONS

General

Power Requirement 12vdc, 100mA nominal + power to loads

Radio

Fuses Customer-supplied fuse should be installed in field wiring

Frequency 433.92MHz, fixed frequency

RF Connector (option) BNC

Outputs RF6-SM; Up to 3 Solid state 10-amp sourcing (total max current)

RF6; Up to 10 Solid state 10-amp sourcing (total max current)

Field Wiring RF6-SM; Deutsch DT06-08S plug and contact kit

RF6; Deutsch DT06-12S plug and contact kit

Crimp contacts provided for 16-18awg stranded wire

Environmental

Storage -40°C to 85°C

Operating -10°C to 60°C

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Care and Handling

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

Remove receiver from machine prior to welding on machine.

Do not paint electrical connectors.

Use only factory provided antenna and cabling.

Do not open receiver enclosure except to make adjustments to factory settings.

Use transmitter to test functions. Do not apply voltage to circuit board directly.