

USER'S MANUAL

MODEL PT-90 TELEMETRY TRANSMITTER



INTRODUCTION

The Communications Specialists Model PT-90 is to be used as a telemetry transmitter to locate livestock and other animals by doppler positioning or triangulation. It also transmits back data relative to activity, mortality, etc. by changing pulse rate. It is FCC Certified and must be used with a valid FCC license, issued for telemetry uses, under Part 90.259 of the Rules. It is preprogrammed at the factory to operate in the 217-220Mhz band. Power output is 95mW. The PT-90 is waterproof and includes a changeable, screw-on, antenna. It uses a widely available CR123A Lithium battery or a LIR 17335 rechargeable Lithium battery. The transmitter can be disabled to preserve battery life by sliding the supplied magnet into the slot between to top of the transmitter and the collar.

BATTERY INSTALLATION

First remove the magnet, if installed. Then slide the supplied CR123A Lithium battery into the collar battery compartment + (positive) end in first. Screw on the battery compartment cap with a screwdriver or coin. A small amount of Vaseline on the battery compartment cap "O" ring will allow easy cap removal and keep the battery compartment watertight. Dispose of any used batteries properly. If the battery is inserted backwards, the transmitter will not function but it will not be damaged. Simply reverse it to start the transmitter working. If you are using the LIR17335 rechargeable Lithium Ion battery and quick charger, please note that if a discharged battery is being charged, the LED indicator light on the charger will be orange. When the battery is charged, it will change to green. A battery can be left in the charger indefinitely without being damaged. The rechargeable battery can be recharged over 500 times before needing replacement. Charge time is less than 3 hours.

FCC COMPLIANCE NOTICE

In order to legally operate this transmitter, you must be first meet the eligibility requirements of FCC Part 90.35. This means you must be engaged in a commercial or educational activity. Then you must have a valid FCC License yourself or be part of a for-profit or non-profit sharing agreement as detailed in 90.179 held by your equipment provider or someone else. If you choose to obtain your own FCC License, we will help you with the following required steps. We will recommend a License Administrator who will prepare your license application and submit it to a Frequency Coordinator. A few questions will need to be answered such as your company name, address, area of planned operation, etc. We will provide the technical information required such as frequencies requested, output power, emission type, etc. A separate fee will be required for the Administrator, Frequency Coordinator, and FCC. After your license is issued and equipment installed, the Administrator will notify the FCC that buildout is complete. Your license will normally be issued for a 10 year term. All operation is secondary to the fixed and mobile services. The FCC ID for this transmitter is CFXPT-90.

CAUTION: Any changes or modifications to this device could void the user's authority to operate the equipment.

CAUTION: This device is restricted to mobile operations only and may not be person- worn, co-located or operated in conjunction with any other antenna or transmitter.

WARRANTY

The PT-90 is warranted to be free of defects in materials and workmanship for a period of one (1) year from the date of purchase. Just return the unit to the factory and we will repair or replace it at no charge.



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