TRANE™

Wireless Zone Sensor
Model 7722TX
(TRANE Part No. X13790126060)

INSTALLATION INSTRUCTIONS

INTRODUCTION

This wireless zone sensor is designed for use in a temperature control system, operating in conjunction with a centrally located Spread Spectrum Receiver (Model 7712RX). Zone sensors are installed in areas where temperature control is to be maintained. Ideally, the receiver should be equidistant from all its assigned zone sensors.

The zone sensor measures temperature and periodically transmits that information via RF signals to its assigned receiver. The sensor also transmits occupant set point temperature. Other information that can be transmitted includes special service requests, unique serial number of sensor, and status of the batteries in the unit.

RF signals from wireless zone sensors are received by a receiver, which will then send appropriate messages via communication wires to specific .heating and air conditioning equipment assigned to it. This information is also sent to a central controller for system monitoring.

> **NOTE**
> After mounting each wireless sensor, the Model 7712IT Installation Tool can be used to assign each sensor to a specific heating and air conditioning controller. The necessary instructions for this are contained in the instructions accompanying the 7712IT Installation Tool.

INSTALLATION

Location

Wireless sensors can be installed anywhere on common walls and panitions. Operation will not be affected by metal framing in walls or partitions; however, mounting to solid metal walls or cabinets may reduce the operating distance between the zone sensor and the receiver. Typical line-of-sight transmission range indoors for sensors is approximately 1000 feet.

Mounting (Fig. 2)

A mounting plate is provided with the sensor. If attached to the back of the sensor, release it by depressing the 'locking tab' at the bottom center of the mounting plate with the blade of a screwdriver, and then sliding the plate downward.

Mount the plate on the selected wall or partition with the VELCRO strips or screws provided. Hooks must point upward (the plate also has the word 'TOP' molded into the top side).

Position the sensor onto the mounting plate so that the mounting plate hooks enter the keyhole slots in the back of the sensor, then slide downward to lock the sensor in place.

Battery Installation (Fig. 3)

The sensor uses two 3-volt Lithium batteries (supplied). Remove the sensor cover by squeezing the cover at the top and bottom and then pulling the cover away.

Install one battery in each compartment in the sensor. THE SENSOR WILL NOT OPERATE WITH ONLY ONE BATTERY.

Note: Batteries will not seat properly in their compartments if installed incorrectly with regard to polarity. Make sure each battery is fully seated in the compartment and that proper contact is being made at each end of the battery.
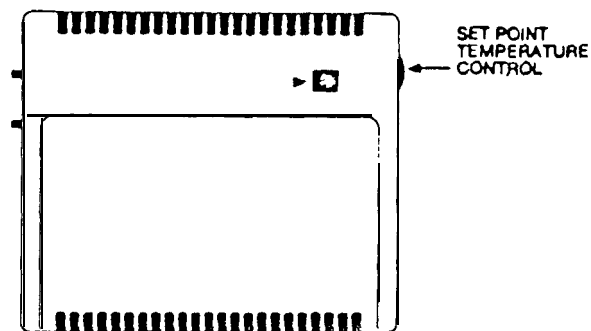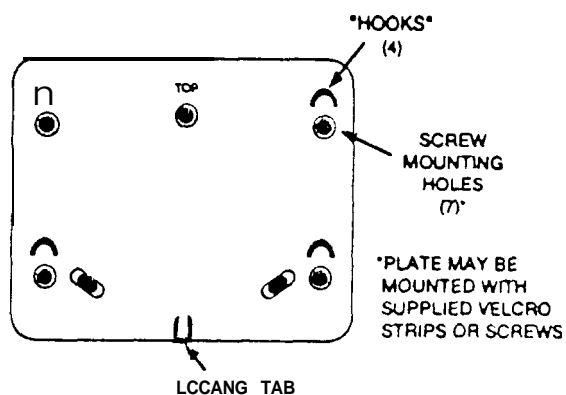

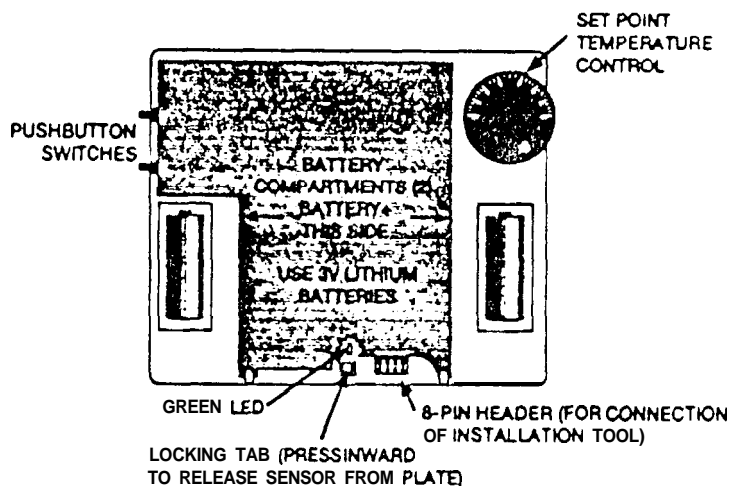Figure 1. Typical Wireless Sensor

Figure 2. Mounting Plate

Figure 3. Wireless Sensor, Cover Removed

Removing A Sensor From Its Mounting Plate

To remove a sensor from its mounting plate after installation, press inward on the 'locking tab' at the bottom center (just to the left of the 8-pin header), and slide the sensor up and off the mounting plate. See Figure 3 for location of the locking tab.

FUNCTIONAL ELECTRICAL TEST

This check should be performed after a zone sensor has been mounted and the **batteries** installed. The cover must be **off.**

If the sensor is equipped with a temperature control, set the control dial with **'70'** in the **9 o'clock** position.

Press either one **of** the two pushbutton switches on .the upper **left** side of the sensor. The green LED near the bottom **of** the circuit board should flash each time the pushbutton is pressed. If it does not, check that both batteries are good and **are** property seated in the holders.

In normal use, the green LED will Hash each time the zone *sensor* transmits a message, **usually** several minutes apart.

SET-UP PROCEDURE

Rater to the sensor set-up procedures **In the** instructions **accompanying** the Model 771211 **Installation Tool.**

SPECIFICATIONS

Dimensions: Height: 4-1/16"
Wiih: 5'
Depth: 1-5/16" (not including mounting plate).
(103mmH x 127mmW x 33mmD)

Range: Nominal 1000 feet fine-of-sight, indoors.

Batteries: Two 3-volt 2/3A Lithium Batteries.
Use only Trane No. X1377001 7010, Panasonic CR123A, Duracell 1234 or Sanyo CR123A for replacement.

> **BATTERY CAUTION:**
> Risk of fire, explosion and burns. Do not recharge, disassemble, heat above 100°C, or incinerate. Dispose of used batteries promptly. Keep away from children.

USER NOTE

CHANGES OR MODIFICATIONS MAOE TO THIS EQUIPMENT WHICH ARE NOT EXPRESSLY APPROVED BY THE AGENT FOR THE TRANE COMPANY RESPONSIBLE FOR COMPLIANCE WITH FEDERAL REGULATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THIS EQUIPMENT.

TRANE™

THE TRANE COMPANY,
Commercial Systems Group
3600 Pammel Creek Road,
Lacrosse, WI 54602

Copyright 0 1994

N5962 6/94