INSTALLER'S GUIDE

18-HH08D6-1

ALL phases of this installation must comply with NATIONAL, STATE AND LOCAL CODES

Models:

ZZSENSAL0110

REMOTE ANALOG TEMPERATURE SENSOR

IMPORTANT -- This Document contains wiring and service information. This is customer property and is to remain with this unit.

GENERAL:

These instructions do not cover all variations in systems nor provide for every possible contingency to be met in connection with installation.

INSPECTION:

Check carefully for any shipping damage. This must be reported to and claims made against the transportation company immediately. Any missing parts should be reported to your supplier at once and replaced with authorized parts only.

INSTALLATION:

⚠WARNING: DISCONNECT POWER SUPPLY BEFORE BEGINNING INSTALLATION TO PREVENT PERSONAL INJURY OR DEATH FROM ELECTRICAL SHOCK AND EQUIPMENT DAMAGE.

IMPORTANT: This Sensor is only compatible with the ZSASSMAL010 System Controller, ZUSTATALMS10 Master Scheduler, and ZUSTATALP510 and ZUSTATALS510 Communicating Sensors. It senses temperature where it is located and provides the system controller or communicating sensor an analog signal proportional to this temperature.

When Installing This Product...

1. Read these instructions carefully. Failure to follow could damage the Sensor or cause a hazardous condition.
2. Installer must be a trained, experienced service technician.
3. Allow Sensor to warm to room temperature before operating. Electronic Sensors require approximately 90 minutes to stabilize for best results.
4. After installation is complete, check out Sensor operation as provided in these instructions.

SENSOR LOCATION:

To ensure proper operation, the Sensor should be mounted on an inside wall in a frequently occupied area of the building. In addition, its position must be at least 18 inches from any outside wall, and approximately five feet above the floor in a location with freely circulating air of an average temperature. Be sure to avoid the locations described below when determining a site for the Sensor.

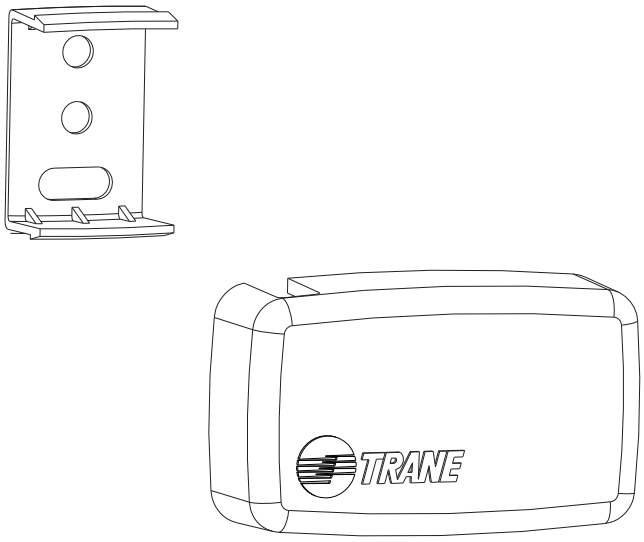
⚠WARNING: ZONE INTEGRITY MUST BE MAINTAINED TO EFFICIENTLY CONTROL UNITS OR GROUPS OF UNITS. UNLESS ZONES OF CONTROL ARE CONSIDERED AND ACCOUNTED FOR, ADJACENT UNITS MAY OPERATE IN HEATING AND COOLING MODES SIMULTANEOUSLY.

The Sensor may then be located anywhere except in direct sunlight, harsh atmospheres or near sources of electrical interference.

DO NOT LOCATE THE SENSOR:

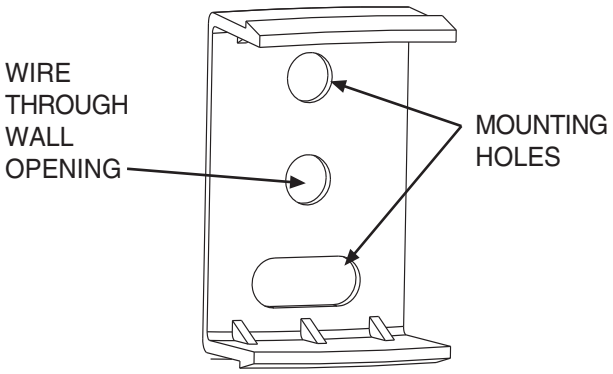
1. Behind doors or in corners where freely circulating air is unavailable.
2. Where direct sunlight or radiant heat from appliances might affect control operation.
3. On an outside wall.
4. Adjacent to, or in line with, conditioned air discharge registers or grilles, return air grilles, stairwells, or outside doors.
5. Where its operation may be affected by steam or water pipes or warm air stacks in an adjacent partition space, or by an unheated/cooled area behind the Sensor.
6. Where its operation will be affected by the supply air of an adjacent unit or zone.
7. Near sources of electrical interference such as arcing relay contacts.

1



Removing Sensor from subbase

2



Mounting subbase on wall

MOUNTING SUBBASE:

To remove Sensor from subbase (Fig. 1), grip the sides of the Sensor and pull straight back from the subbase.

The subbase mounts directly onto the wall with the screws and anchors included in the package. Use the subbase as a template, and with a pencil, mark two mounting screw locations (Fig. 2). If drywall construction, plastic anchors must be used; use 3/16 " bit to drill holes for anchors. Gently tap anchors into holes until they are flush to the wall surface. Thread wires through the middle opening of the subbase. Then, mount the subbase using two screws provided. Gently tighten screws, level top surface of subbase, then securely tighten screws.

WIRING:

1. All wiring must comply with local electrical codes and ordinances. Minimum wire gauge is #18 AWG wire.

2. Connect the control wiring to the two terminals on the sensor. See electrical diagram on pages 3 & 4 (Figures 3 & 4).

3. Push excess wire back into the hole, and plug hole with non-hardening caulk, putty, or insulation to prevent drafts inside the wall from affecting Sensor operation.

4. Make sure that the temperature sensing thermistor is not touching any part of the Sensor case before replacing the Sensor on the subbase.

CHECKOUT:

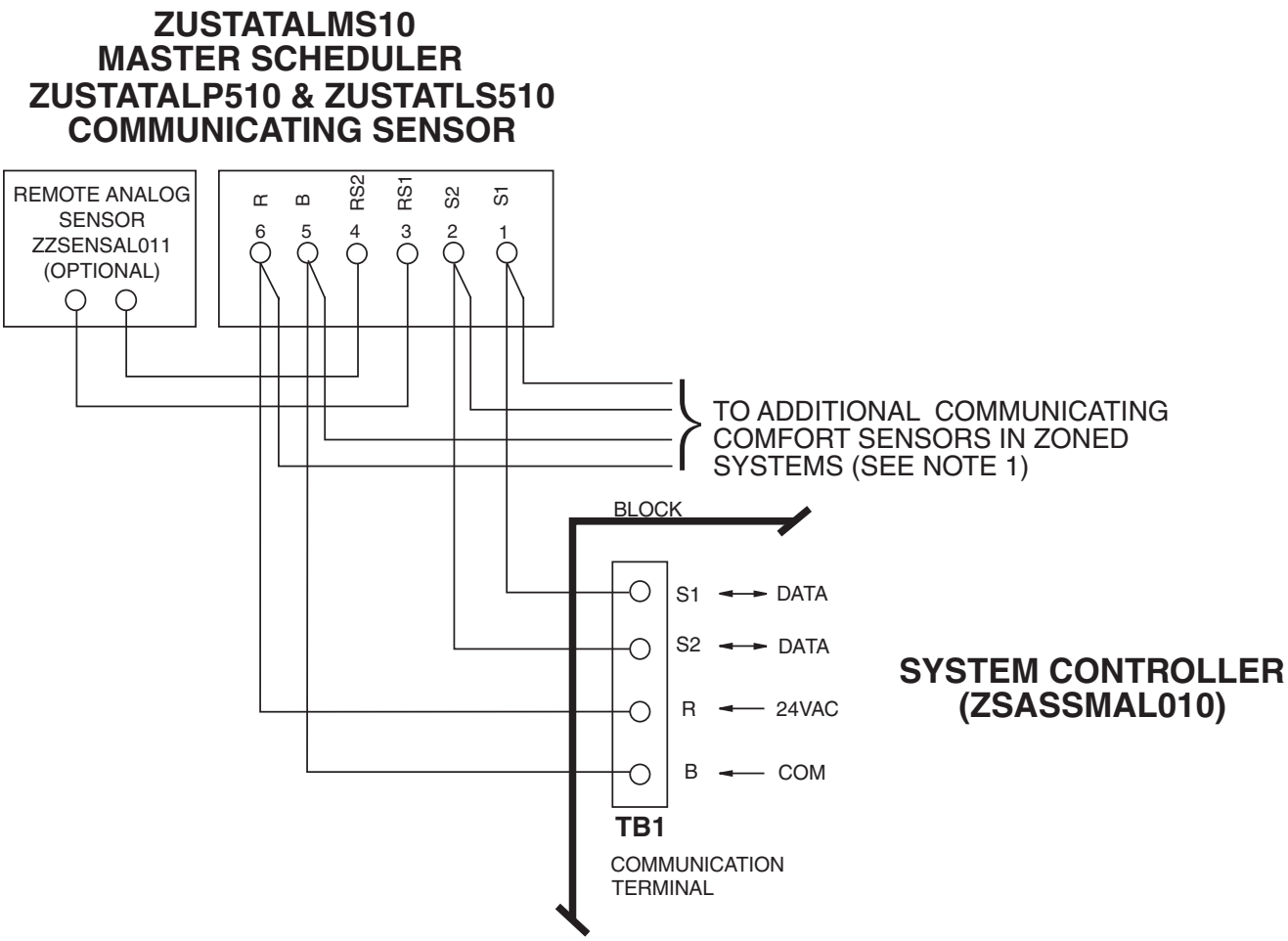
Restore power to the system. The system may be operated by the System Controller or Communicating Sensor by setting mode and set-point for desired operation (see Sensor Manual).

SETUP AND CALIBRATION:

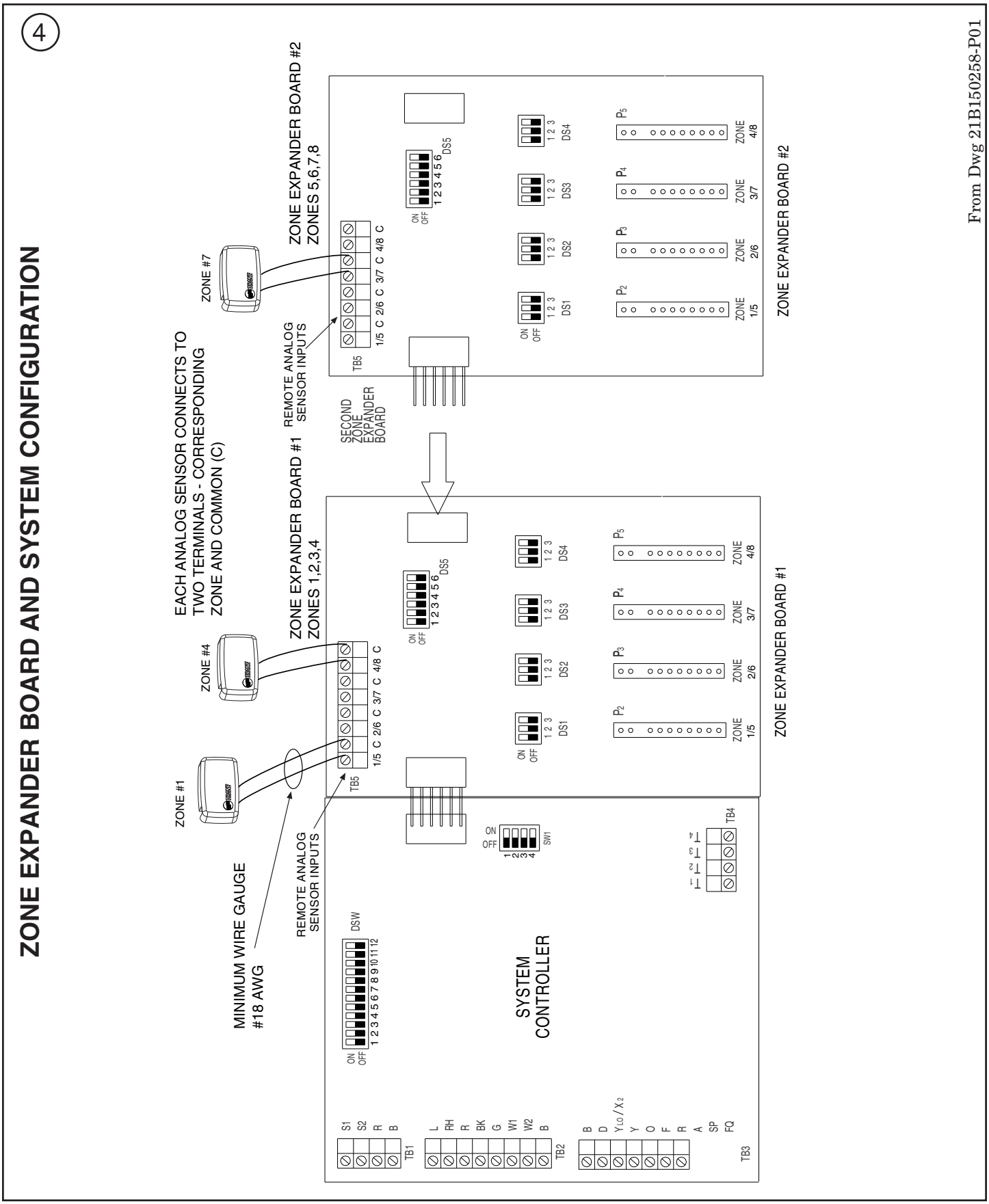
Refer to the Communicating Sensor's Home Owner's Manual for setup and calibration of the Sensor.

3

SENSOR HOOKUP WITH SYSTEM CONTROLLER ZUSTATALMS10 MASTER SCHEDULER ZUSTATALP510 & ZUSTATALS510 COMMUNICATING SENSORS



NOTE 1 - MULTIPLE COMMUNICATING COMFORT SENSORS MAY BE "DAISY-CHAINED' AS SHOWN OR HOME RUNNED TO THE SYSTEM CONTROLLER IN A ZONED SYSTEM



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