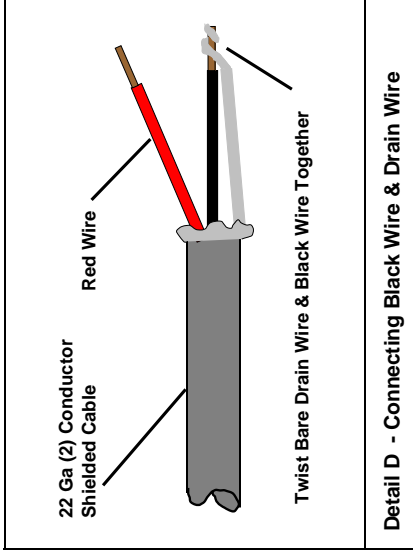
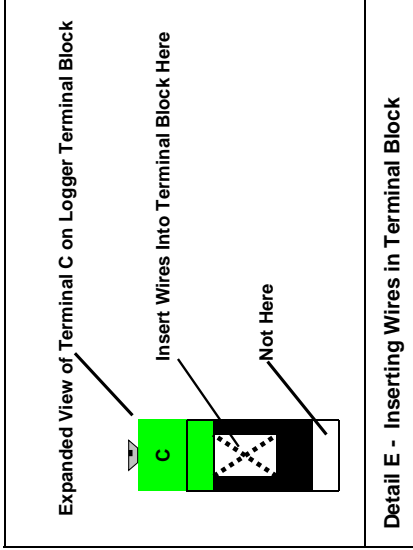


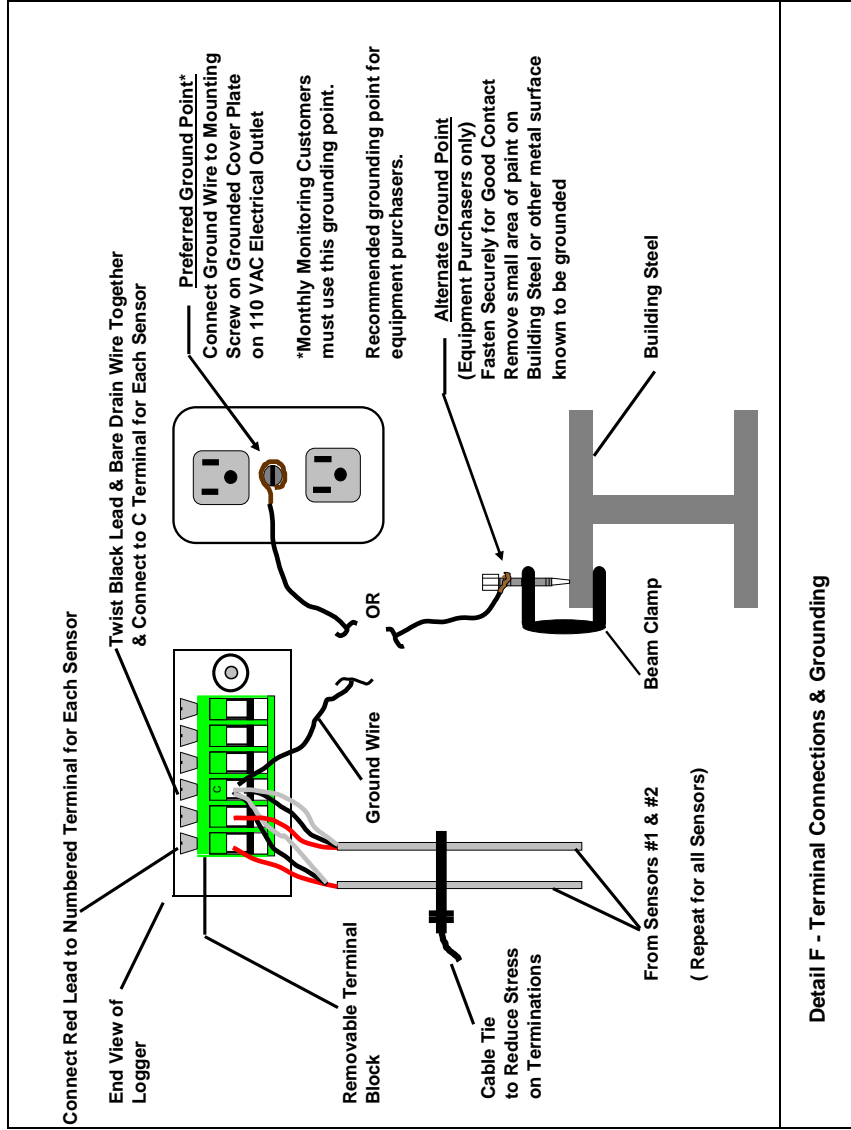
Detail C - Stripping Insulation & Foil Shield Back



Detail D - Connecting Black Wire & Drain Wire



Detail E - Inserting Wires in Terminal Block



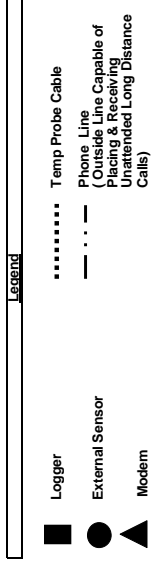
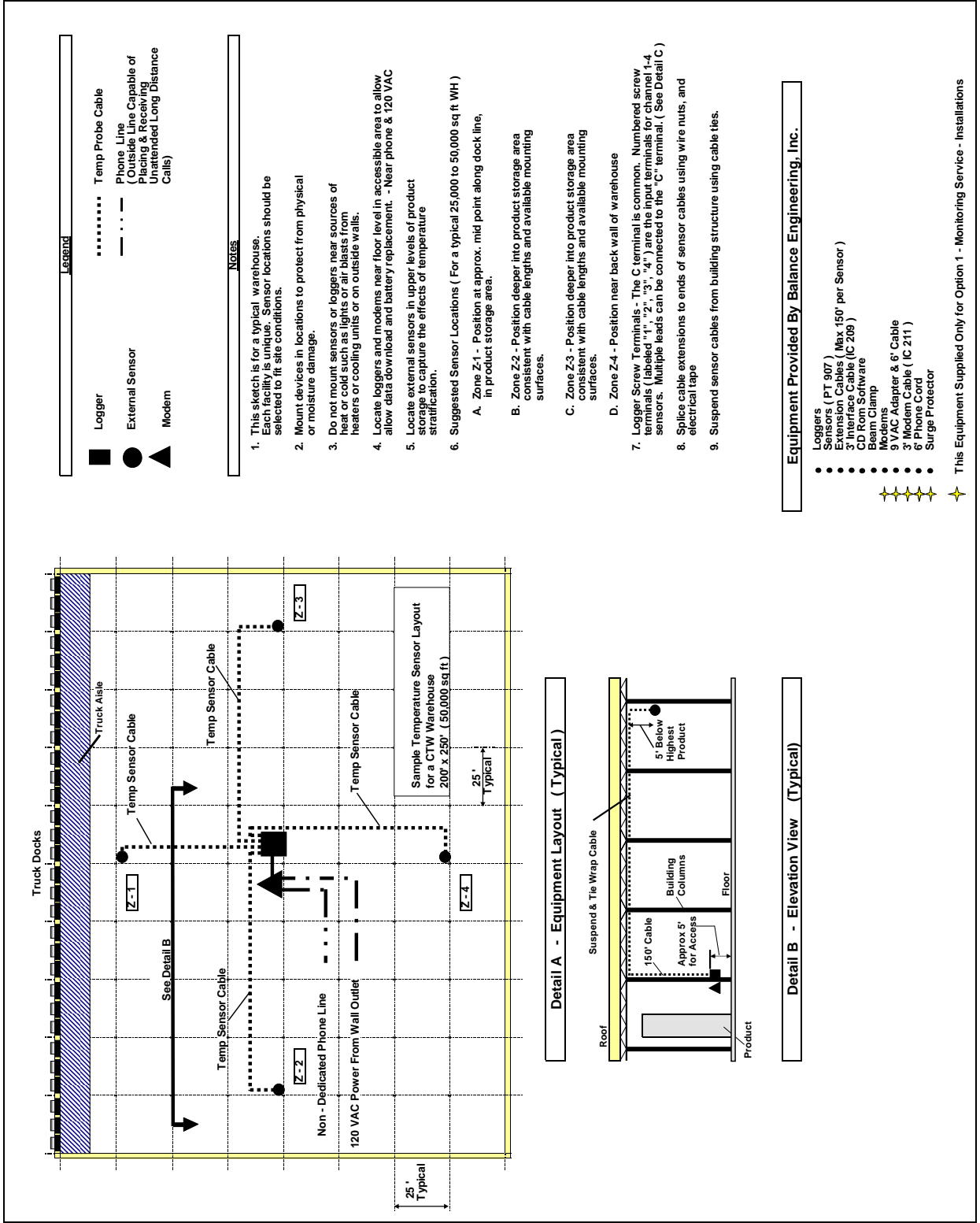
Detail F - Terminal Connections & Grounding

Comments

These installation details will help to prevent any stray or induced signals collected in the sensor extension cables from affecting the logger programming or memory.

1. Strip back insulation on extension cables as shown in Detail C.
2. Twist the bare drain wire securely around the exposed end of the black wire as shown in Detail D.
3. When inserting the wires in the terminal block be sure to insert them in the upper opening of the termination hole as shown in Detail E. This is the area that contracts when the terminal screw is tightened.
4. Connect the red lead to the numbered terminal for each sensor. A sensor must be connected to the number 1 terminal or no logging will occur.
5. Connect the black wire & bare drain wire that were twisted together in step 2 above to the C terminal.
6. Connect a ground wire to the C terminal. For a (4) sensor logger, there will be a total of (9) wires connected to the C terminal.
7. Connect the other end of the ground wire securely to a point of ground as shown in Detail F. Two methods are shown. The preferred method is to connect to the grounded cover plate on an electrical outlet. An alternate method can be used if no outlet is near by. The ground wire can be connected to a grounded point on the building steel. If in doubt as to whether a point is grounded, check with an electrician. The ground wire can be a length of the same cable used for the extension cables.

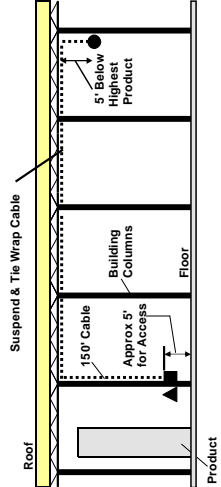
8. For wood supported buildings, or other situations where the building structure may not be a good source of ground, a non-isolated waterpipe or NEC compliant electrical enclosure can serve as a ground. If in doubt have an electrician confirm.



Notes

1. This sketch is for a typical warehouse. Each facility is unique. Sensor locations should be selected to fit site conditions.
2. Mount devices in locations to protect from physical or moisture damage.
3. Do not mount sensors or loggers near sources of heat or cold such as lights or air blasts from heaters or cooling units or on outside walls.
4. Locate loggers and modems near floor level in accessible area to allow allow data download and battery replacement. - Near phone & 120 VAC outlets.
5. Locate external sensors in upper levels of product storage area to capture the effects of temperature stratification.
6. Suggested Sensor Locations (For a typical 25,000 to 50,000 sq ft WH)
 - A. Zone Z-1 - Position at approx. mid point along dock line, in product storage area.
 - B. Zone Z-2 - Position deeper into product storage area consistent with cable lengths and available mounting surfaces.
 - C. Zone Z-3 - Position deeper into product storage area consistent with cable lengths and available mounting surfaces.
 - D. Zone Z-4 - Position near back wall of warehouse

Detail A - Equipment Layout (Typical)



Detail B - Elevation View (Typical)

Equipment Provided By Balance Engineering, Inc.

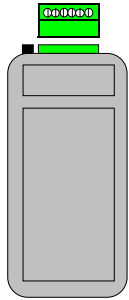
- Loggers
 - Sensors (PT 907)
 - Extension Cables (Max. 150' per Sensor)
 - Telephone Cables (IC 209)
 - CD Rom Software
 - Beam Clamp
 - Modems
 - 9 VAC Adapter & 6' Cable
 - 3' Modem Cable (IC 211)
 - 6' Phone Cord
 - Surge Protector
- ✦ This Equipment Supplied Only for Option 1 - Monitoring Service - Installations

EQUIPMENT ILLUSTRATION

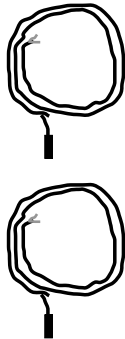
Directions

- * Locate packing list wrapped around logger and sensors in shipping carton.
- * Inventory listed items to insure order is complete.
- * Use this equipment illustration sheet to identify items listed on the packing list.
- * Notify Balance Engineering, Inc. immediately if any discrepancies are found.

Logger (With Detachable Terminal Strip)



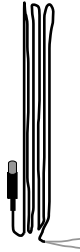
PT 907 Dry Type Sensors



Beam Clamp



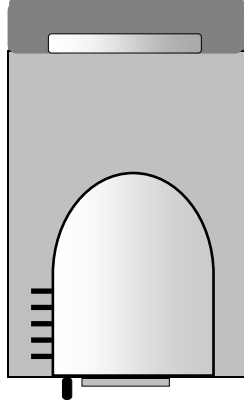
PT 940 Waterproof Sensor



IC 209 Cable (Connects Logger to Computer)



Modem

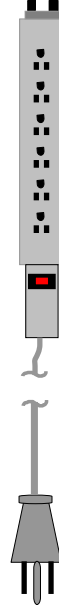


Packaged Together
(PT 940 Only if Special Order)

9 VAC Adapter for Modem



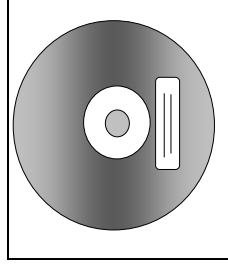
Surge Suppressor for Modem



IC 211 Cable (Connects Logger to Modem)



CD ROM (Logger Software)



Packaged Together
for Option 1 Customers