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# Technical Bulletin

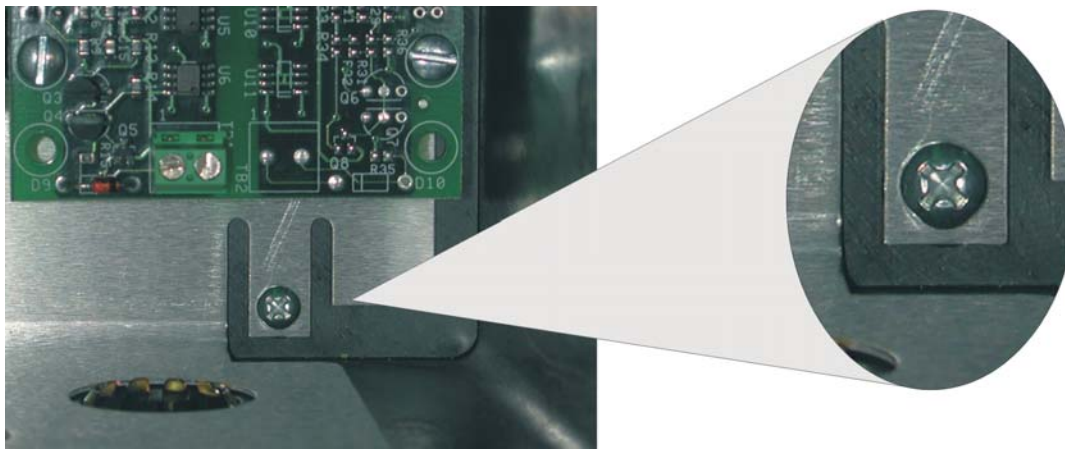
AV-9900 HTST Recorder/Controller  
Proper Wiring Guidelines to Improve Noise Immunity

## ----- WARNING -----

The AV-9900 incorporates a dual element hot product probe, along with a comparator circuit to ensure safe and proper operation. Upon a temperature differential greater than 2 degrees F between the primary and secondary temperature inputs, the unit will automatically move to a Divert condition. Stray electrical noise, such as generated by hand-held radios, may cause system interruptions. Testing has shown the effect of stray signals causes a system Divert, with no instances ever causing a unit to move to Forward flow at sub-legal temperatures.

The following guidelines have been drafted to help minimize the potential for stray signals to enter the unit.

To ensure proper operation of this equipment, ALL field wiring (sensor, relay output, current output and legal control) shall utilize shielded cable. All shields shall be terminated at the recorder end only, to a common ground screw (see detail below). Be sure that AC power wiring incorporates a proper earth ground within the distribution panel.



### Accessible screw for securing shields to earth ground (Located in bottom right corner of recorder)

It is recommended that AC power cable be routed through solid metal conduit. Be sure to properly tie conduit to earth ground at the distribution panel to ensure proper power cable shielding. This should be the SAME termination point used for AC power earth ground connection.

For additional questions, contact Anderson Instrument Technical Services at the above listed numbers. Note - these guidelines are meant to **minimize** noise interference to the recorder. As installations vary greatly, Anderson suggests that the electrician / installer be made aware of these guidelines at start-up to ensure that proper wiring precautions are taken.

Any abnormal performance observed during normal operation should be noted, and reported to Anderson Instrument. If the performance issue could potentially cause an un-safe operating condition, use of the instrument should be halted until the source of problem can be located and eliminated.