

Technical service bulletin 19

May 16, 2006

Subject

Proper routing of data wires, including actuator feedback, communication, and other sensor cables

Affected products

All controls and monitoring systems



Issue

Routing data wires in the same conduit as, or beside AC power cables, can cause electrical interference, erratic readings, and/or improper control. Data wires include **all** of the following:

- ◆ Temperature probe and humidity sensor cables
- ◆ Actuator feedback (potentiometer) wires
- ◆ Data communication wires, including RS-232/RS-485
- ◆ PLC (Programmable Lighting Control) 0 to 10 V wires
- ◆ Any cable or wire that does not provide AC power

Resolution

Follow the guidelines below when routing all data wires.

- ◆ Do not run the wires in the same conduit as AC power cables.
- ◆ Do not run the wires beside AC power cables or near electrical equipment.
- ◆ When crossing other cables or power lines, cross them at a 90-degree angle.

If in doubt, **do not run any wire or cable that is not an AC-power wire** inside the same conduit or beside other AC-power wires.

If you have any questions, contact Phason Customer Support.

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