



BAS Dealer Service Note 6/11/02

Setpoint Offset Signal has Inverted Voltage Output on Wall Sensors in Kele Executive Style Enclosure

Description of Problem

The setpoint offset signal on recently manufactured wall sensors has an inverted voltage output. As the lever is moved to the right, the voltage decreases to 0 VDC rather than increases to 5 VDC as it should. When the tenant desires a maximum increase in temperature, they actually are receiving the maximum decrease in temperature.

Extent of Problem

This problem is found in all wall sensors with the setpoint offset option that are housed in a Kele Executive style enclosure and were shipped after 3/15/02. The problem sensors all have a serial number of 001-031502 or higher.

Cause of Problem

An error was made in the course of some recent design modifications to the wall sensor printed circuit board.

Solution

A new zone sensor definition, Invert AI, is now available. This is a checkbox found on the Sensor Definition dialog box within the Zone Configuration. All sensors with the inverted AI must have this box checked to work correctly.

Beginning with BAS version 3.9h.29 the BAS default zone configuration files have been modified to use the inverted offset sensor. No changes must be made on any sites which used 3.9h.29 or later for the original installation.

For any sites which use the problem Kele sensors and were installed using BAS software version 3.9h.28 or earlier, the configuration files must be modified. A utility is provided in BAS version 3.9h.29 and later which automates this process.

To use the offset sensor conversion utility:

1. Close BAS.
2. Install the new BAS software.
3. Use Explorer to locate the system.ini file in the C:\BAS\DATA\SETTINGS directory.
4. Double-click on the file to open it in Notepad.
5. Locate the ConvertOffsetAI= setting in the [Diagnostics] section.
6. Change the ConvertOffsetAI= setting from 0 to 1.
7. Save the system.ini file and close Notepad.
8. Restart BAS.

The utility will locate all zones with a sensor configured as Zone Offset and enable the Invert AI option. The utility will also modify any custom Zone Configuration definitions found in the C:\BAS\DATA\CUSTOM directory. After conversion, the utility will change the ConvertOffsetAI value to 2, indicating a successful conversion.

Since the conversion utility will modify all zones at a Site, if the Site has a mix of sensors with the standard signal and sensors with the inverted signal, some of the zones will have to be manually modified. The manual modification is done from the Zone Configuration/Sensors screen. The options are :

1. First use the conversion utility and then manually change those zones with the standard signal back to the original configuration.
2. Don't use the conversion utility. Manually configure those zones with the inverted signal to 'Invert AI'.

There are no plans at this time to restore the sensor output to standard. If that happens, we will Modify the default configuration of offset sensors to again use a standard signal. We will inform all Dealers of the change at that time.