

Wireless Remote Control System for Air Balancing Damper Adjustments

The Importance of mating the Ceiling Receptacles (CR) or Multi Input Panels to their actuator(s)

Tracing the cables from several Ceiling Receptacles to their respective actuators may be difficult or impossible after the ceiling panels are installed. This problem would be significant if several actuators and their CR's are in a confined area or if several actuator cables merge at a remote Multi Input Panel.

It makes sense to have a method of "tagging" the dampers with a discrete set of characters that are then transferred to the Ceiling Receptacle or MIP. The simplest method provided in the ZipsetSystem is nothing more than a small tag attached to the opposite end of the actuator cable where it connects to the CR.

The tagging characters ideally are added to the duct drawings during the design stage and needs to be nothing more than identifying a zone, area, or room that the ductwork serves, such as "B205" or "North Lobby" etc. It would then be the installing contractor's responsibility to jot down this balancing damper ID onto the cable label (as shown below) and eventually to the Ceiling Cover Plate. This is a simple but worthwhile exercise that will help insure a smooth and accurate balancing task.

Damper Tagging – Step 1

When the actuator is attached to the balancing damper, the installer must note the mark assigned to it on the contract duct drawings or the contractor's shop drawings. This info is then jotted down onto the label attached to the end of the ZSA-1 actuator. Eventually, when the Ceiling Receptacle is installed, the same tag is marked onto the "finger" of the CR so the balancing technician will know what damper it connects to.



The label is shown here at the CR end of the signal cable.

Damper Tagging – Step 2

As noted above, after the ceiling T grid is installed and the CR is attached, (maybe weeks or months later), the cable from the actuator will be connected. The installer must transfer with a felt tip marker the information on the cable tag to the CR "finger". Once the ceiling panels are up, this is the only bit of information tying the CR to a particular damper. To complete the tagging process, when the balancing is done, the same tagging info will be transferred to the small cardboard ring. The purpose is to provide for future readjustments of the damper should it become necessary.



As the installation progresses, The tag info is transferred to the CR "finger" and to the cover plate

Even a well-designed HVAC system may perform poorly and waste energy if not properly balanced. The Zipset System's unique approach to the balancing task offers a quick, precise, and economical solution.

The Zipset System is a product of The Zip Group, LLC

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