

Wireless remote adjustment of the air balancing damper is only one of the useful features of the Zipset System. As shown below, the RCM is plugged in and hanging from the yellow-tipped Ceiling Receptacle finger, ready to go to work.

The Ceiling Receptacle finger protrudes through the hole in the gyp board ceiling.

The "Move" LED blinks anytime the actuator is energized and rotating the damper.

The CW and CCW arrows are primarily used to test the damper operation before making the downstream air flow measurements. Pressing either button will cause the actuator to begin rotating.

The PWR button energizes the RCM to operate the printed circuit boards, the software, and operate the ZSA-1 actuator. **No building power is required.** The red LED remains lit while in operation.

To conserve battery power, if the RCM is left on but does not sense a command signal for 40 minutes, (i.e. gone to lunch or end of the workday) it shuts off. Also, the RCM will shut off after running for more than 30 seconds without an actuator feedback signal.

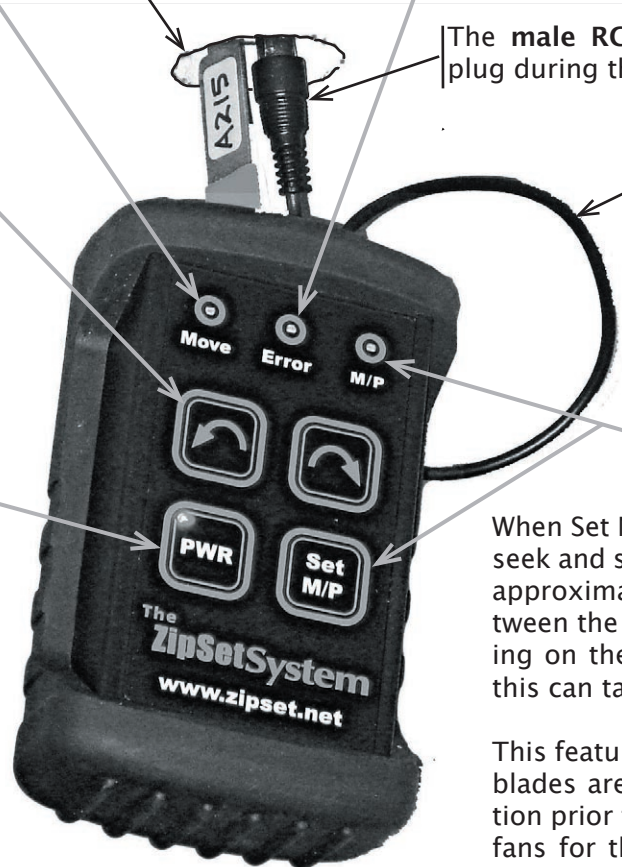
As a **safety feature**, the RCM software will sense a **stall torque condition** and shut off the actuator drive motor to prevent damage to the actuator or damper linkage.

Wireless remote adjustment

The Key Fob RF Transmitter allows a single balancing technician to make downstream airflow measurements from a distance of at least 75 feet, while simultaneously adjusting the damper. The benefits of this unique and patent pending feature are the obvious labor savings as well as a more accurate adjustment since the same person taking the flow readings is also positioning the damper.

The "Error" LED will light anytime an open or short circuit is detected at the power/signal cable after a run command is given from the arrow buttons or from the Key Fob.

This is a **very useful feature** when verifying the operation of the damper before the ceiling panels are installed.



The male RCA plug connects to the CR plug during the balancing operation.

The power/signal cable connects at the Ceiling Receptacle and sends the power, control and feedback signals to/from the ZSA-1 actuator.

The "Set M/P" (Mid Point) mode is used to set multi blade balancing dampers such as those in primary and secondary duct work.

When Set M/P is activated, the RCM will seek and set the damper blades to their approximate rotational mid point between the physical end stops. Depending on the blade position at the start, this can take 15-25 seconds.

This feature is useful to ensure damper blades are at some known open position prior to starting up primary supply fans for the first time. The "M/P" LED will be on and the "Move" light will blink when this mode is operating.