



Installation Instructions

GEN II-R - For residential Gas/Electric* applications with 2-position zone dampers, GEN II-R is wired to the damper board at the damper. For installations with 2-position dampers and programmable thermostats, follow the instructions below.

1. The controller is to be powered by a dedicated 24vac transformer sized at 12VA per damper. The transformer secondary is wired to TR1 TR2 on the controller.
2. Daisy Chain the unshielded twisted pair Data Link (TX RX) and 24V Power Wires from Damper Board to Damper Board. Wire R to RB ("R" on damper board) and C to CB ("C" on damper board). The unshielded twisted pair (Belden 8740 – Zonex pt. # TWPR) should be daisy chained from TX RX on the GEN II controller to TX RX on the damper board; then continued to TX RX on the next damper board. We have provided a second set of terminals on the damper board to allow you to easily daisy chain the twisted pair.
3. Each zone damper board must be individually addressed to communicate with the GEN II controller. We have provided a scale on the damper board from 1 – 10 indicating zone address number. It is important that each zone damper have a unique address. Damper boards are addressed by placing a jumper on its respective zone; i.e., if your damper board is wired to the first thermostat in the system, place the jumper over ZN1. For the next damper board, place jumper over ZN2 and continue to address each damper board in your system. NOTE: The jumper for each damper board is attached to the actuator. Place jumper over its ZN ID number.
4. Install the leaving air sensor (LAT) in the supply air, ahead of the bypass take-off. Sensor wires are connected to the S S terminals on the controller. The LAT sensor leads may be extended using standard 18/2 thermostat wire.
5. Wire non power robbing Programmable Thermostats to the Damper Board.
6. Wire the Gen II-R Board Unit Terminals to their Like Terminals on the HVAC unit.

* **GEN II-R will not work with Heat Pump systems.**