

PRODUCT BULLETIN

Date: 01/18/2021

Subject: Lennox – VRF Thermostat Interface with DIGI Products

Question:

How do the DIGI zone controllers integrate with a Lennox VRF system using a Lennox thermostat interface?

Solution:

To integrate a DIGI 3 or 4 zone controller with a ducted Lennox VRF system a Lennox thermostat interface and three 24 VAC single pole relays are required (both are field supplied). Wire the Lennox thermostat interface to the ducted fan coil per the manufacturer's instructions. Do not attempt to use the thermostat interface to provide power to operate the DIGI zone controller; a separate 24 VAC/40 VA transformer must be used to provide power to the DIGI zone controller and field supplied relays. Wire the coils of the field supplied relays to the DIGI zone controller per the wiring diagram on the next page. Next, wire the contacts of the field supplied relays to the Lennox thermostat interface per the diagram on the next page. This arrangement works exactly like an isolation relay configuration. The "C" terminal of the thermostat interface is not used in this application.

On a call for heat, cool, and/or fan the DIGI zone controller will energize the corresponding relay closing the contacts and completing the circuit between "R" to "W, Y, and/or G" of the thermostat interface thereby initiating a call for heat, cool, and/or fan to the ducted VRF system. When the call is satisfied the DIGI zone controller will de-energize the corresponding field supplied relay(s) and the VRF unit should discontinue the current mode of operation.

If you need additional information, please contact Zonex Systems Technical Support 800 228 2966

For Job Quotes Visit www.zonexproducts.com