



INSTALLATION / OPERATION MANUAL

V160919

Signal Converter

ARB3

MODEL:

TOOLS REQUIRED:

1. Power Screwdriver
 - Phillips #3 Bit - floor panel screws
2. Panel Lifter (Suction Cups) - remove floor panels
3. Voltmeter - confirm power status

MATERIALS REQUIRED:

1. ARB3 Signal Converter
2. Plug & Play Cables (PAP-1 / PAP-1J)

PREPARATION:

1. Verify that the ARB3 is the correct model, unit count and location(s) per scheduled placement.
2. Remove the floor covering / floor panel at the desired location(s) (if installed).
3. Verify that all adjacent floor panels are properly installed.

INSTALLATION:

Connect ARB3 to designated thermostatic zone:

- “THERMOSTAT” port connects to existing thermostat or controller with a PAP-1J cable. This port supplies 24VAC power to the thermostat and receives the floating control signals.
- “AIR VALVE” port connects to GEN-3 air valves with a PAP-1 cable. This port receives power from the air valve terminal and supplies the time-modulation control signal.

Refer to project-specific zone cabling diagrams for additional details.



TESTING:

The ARB3 includes a built-in switch activated test sequence. When the switch is placed in the test position, the ARB3 device will cycle the GEN-3 devices open and closed approximately every six (6) seconds to verify correct wiring and operation. Placing the switch in the run position will restore correct operation after cycling the power off and on. This test sequence only affects the Gen-3 devices and is independent of the thermostat device.

OPERATION:

Once installed, the ARB3 requires no direct input or adjustment for proper operation.

MAINTENANCE:

Once installed, the ARB3 requires no regular service or maintenance for proper operation.



IMPORTANT: It is **HIGHLY RECOMMENDED** by the manufacturer that each zone be checked for faulty or improper wiring **DURING INSTALLATION**. Each zone should be tested thoroughly for full connectivity before proceeding with installation of the next zone. The manufacturer cannot be responsible for any improper installation as a result of failure to follow this procedure as outlined in the FlexSys Connectivity Testing Procedures.