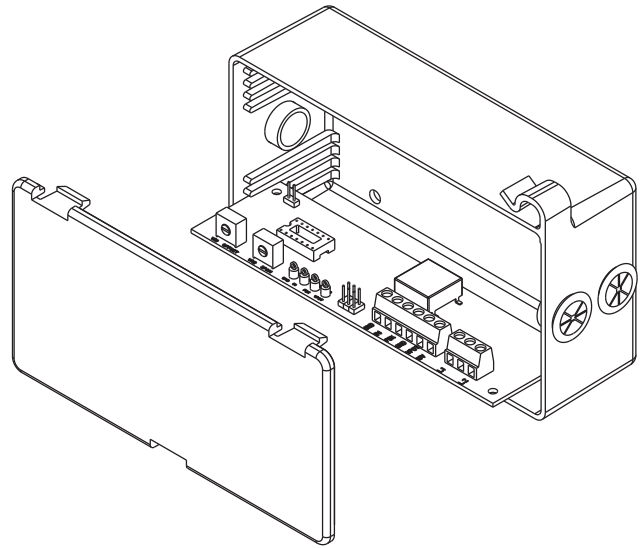


The new dual voltage Flow Feedback card receives the valve potentiometer (V-Pot) signal representing the actual valve flow, and provides a scaled output or flow feedback signal ranging between 0 - 10 Vdc that represents the signal received.

The flow feedback card has been a key component of the analog product line for many years. The new feedback card can be powered by either the original DC voltage used on the analog product, or it can be powered by 24 Vac for use with the Celeris platform.

Originally developed for use with BEV/BSV valves, the flow feedback signal is used to provide flow values for those valves that are non-electronic. The flow value is then used in calculations for room or zone balance.

The base-line functionality of the new flow feedback card is the same as in the previous version. However, with a dual voltage option the new card is ideal for use with both Celeris and analog systems.



Dual Voltage Flow Feedback Card and Assembly

SPECIFICATIONS

Material

Compatible with PPC flame retardant black box part number 520-000-011LF

Enclosure:

- Dimensions: 6" x 3.2" x 1.9" *
- Weight with PCB: >6 oz.
- Color: black

Mounting

The Flow Feedback Card is factory installed in the PPC flame retardant black box part number 520-000-011LF.

Performance

- Volume control accurate to +/- 5% of airflow command signal.
- Available in flows from 35-6000 cfm (60-10,000 m³/hr).
- Response time to change in command signal <1 second.

Power Requirements

- Power Supply:
 - 24 VAC; +/-15%; 50/60 Hz; 1.5 VA
 - Or
 - +/-15 VDC; +/-15 %; 35 mA

Operating Range:

The Flow Feedback Card operates in the same environment as an AH/V board. The following spec items are based on benchmark testing of AH/V.

- Ambient Temperature - 0-50 C (32-122 F)
- Storage Temperature - 0-60 C (32-140 F)
- Humidity - 10% to 90% non-condensing

VAV Controller

- 0-10 Vdc command signal
- 0-10 Vdc flow feedback signal

Outputs (1)

Signal Type	Range	Tolerance
Voltage	0.0V - 10.0V	5% F.S.

Certifications



FEATURES

Phoenix Controls dual-voltage flow feedback boards can be used in parallel, or the board can be used as a replacement as follows:

Phoenix Part Number	Notes
800-000-013LF	Replaces 800-000-006 DC only and the combination of 109-900-153LF AC to DC power converter and 800-000-006.

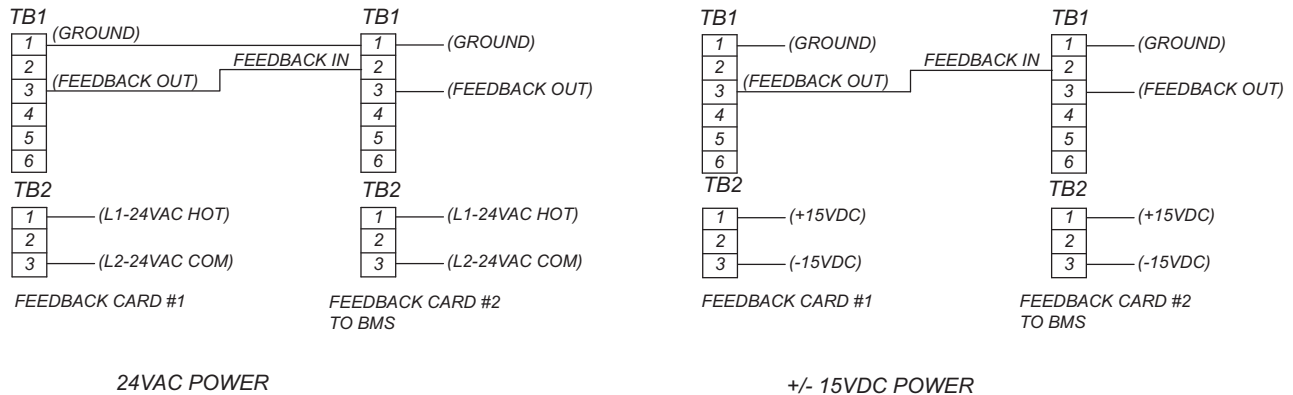
APPLICATIONS

Phoenix Controls flow feedback cards are used for airflow control requiring two-position valves. The flow feedback cards provide the functionality necessary for velocity control to maintain a constant velocity as the volume of air flow varies. A change in the air flow causes the card to drive its valve to one of two pre-set positions.

INSTALLATION

The flow feedback assembly is factory installed in the PPC flame retardant black box part number 520-000-011LF. One PCB required per flow feedback assembly.

POINTS AND WIRING



MAINTENANCE

Phoenix Controls flow feedback cards require no ongoing preventive maintenance. Once the field setup has been completed, the cards will provide years of continuous operation.