VIP-9000 I/P TRANSMITTER INSTALLATION NOTES

- **Please read these instructions before you begin installation.**

QUICK INSTALL:

Mechanical

1. Attach the plastic track in the desired location using sheet metal screws. It is important that the instrument is mounted in an upright position with the silk screened arrow on the circuit board pointing up.

Electrical

1. Connect either a 2 to 10 volt or a 4 to 20 mA signal from your panel to the terminal strip on the VIP-9000. The terminal polarity is marked on the circuit board. The instrument is reverse polarity protected, but will not operate if the polarity is reversed.

Pneumatic

1. A 20 psi nominal, 30 psi maximum, clean, dry, oil free air supply is required. Add an in-line filter if there is any question about the quality of the air supply.

2. Connect the air supply to the barbed fitting with the black plastic hose. This connection is also marked "M" for MAIN on the body of the instrument.

3. Connect your pneumatic output to the barbed fitting with the white plastic hose. This connection is also marked "B" for BRANCH on the body of the instrument.

Jumper Function

Some older control panels do not current limit their analog voltage outputs. On start up using voltage inputs the VIP-9000 can draw over 40mA's for a few fractions of a second. If this current surge causes a problem with your panel the jumper should be removed or moved to the 2 left pins.

FUNCTION:

The VIP-9000 is an I/P or V/P transducer for interfacing electronic control panels to pneumatic valves. A 4...20 mA or 2...10 VDC (capable of delivering 20 mA) input signal is converted by the electronics to a 3 to 15 psi pneumatic signal to position dampers and valve actuators.

TECHNICAL DATA

Input Signal: Either 4 ... 20 mA or 2 ... 10 VDC. Voltage signals must be capable of delivering 20mA.

Output Signal: 3 to 15 psi

Air Supply Required: 20 psi nominal, 30 psi maximum, clean, dry, oil free air required. Add in-line filter if necessary.

Air Consumption for Sizing: 0.008 scfm at 15 psi

Air Capacity for Air Mains Size: 16 scim

Maximum Air Capacity: 515 scim at 20 psi supply

Operating/Storage Temperature: -29 to 60C / -40 to 71C (-20 to 140F/-40 to 160F)

Humidity: 5 to 95% rH, non-condensing

Optional In-line Filters:

10 micron version order model VIP-F10

0.1 micron version order model VIP-F02

Factory Calibration: The standard VIP-9000 is calibrated at the factory for 2 to 10V equals 3 to 15 psi and 4 to 20mA equals 3.6 to 15 psi. At 3 psi there is a small offset between the voltage and current inputs. This offset provides reverse polarity protection and a ripple signal to the valve to remove hysteresis. On request, versions calibrated 4 to 20mA = 3 to 15psi or custom ranges are available.