



PRESSURE

PRESSURE TRANSMITTER

PVI-1, PVI-2

DESCRIPTION

The **Kele Model PVI-1 and PVI-2 Pressure Transmitters** are designed to provide economical monitoring of control air pressure in HVAC applications. The **Model PVI-1** is furnished in a unique slim-line design housing, which saves panel space, and can be ordered with an optional DIN rail-mounting adapter. The **Model PVI-2** is a snap-track mounted version with identical operation. Both versions are available with an optional pressure indication gauge. Both units have LED indication for power and for output over range when input pressure exceeds maximum calibrated pressure. The output signal is limited to 110% of normal full scale (20 mA, 5/10/15V).



PVI-1



FEATURES

- AC or DC power
- 0-20 psig (0-137.9 kPa) input pressure range
- 4-20 mA and voltage outputs available simultaneously
- Adjustable zero and span
- LED indication of power and output over range
- Optional pressure gauge

APPLICATION

Models PVI-1 and PVI-2 convert an input pressure to a 4-20 mA current sourcing and a jumper-selectable 1-5, 2-10, or 3-15 VDC output signal that is directly proportional to the input pressure. The zero and span potentiometers allow for adjustment if the output signal required is different from the standard calibration.



PVI-2 with Optional Gauge

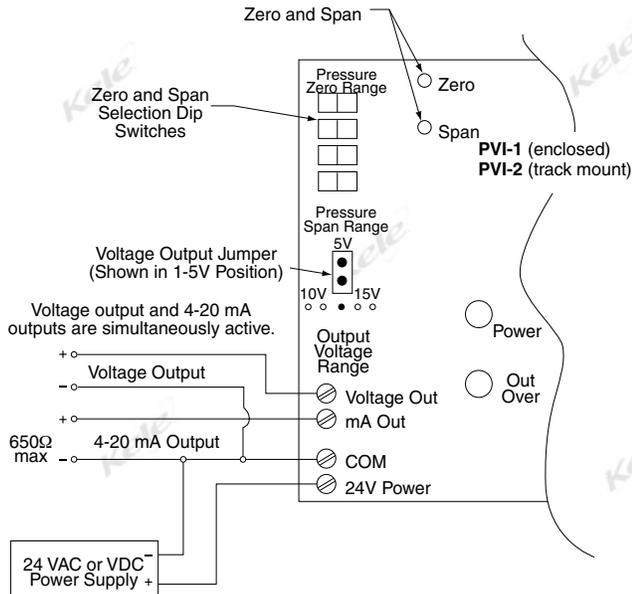
SPECIFICATIONS

Supply Voltage	24VDC $\pm 10\%$ @35mA, 24VAC $\pm 10\%$ @80mA	Media Compatibility	Inert dry air
Signal Output (Volts,Current)	1-5V, 2-10V, 3-15V, 4-20mA (sourcing)	Process Connection	1/4" barb
Min Voltage Output Impedance	1-5V = 1250 Ω , 2-10V = 2500 Ω , 3-15V = 3750 Ω	Wiring Terminations	4 Terminals
Max Current Output Impedance	650 Ω	Mounting	(2) #8 screws
Accuracy	± 0.1 PSIG @77°F (25°C)	Enclosure Rating	Plastic, NEMA 1 or snap track
Sensor Type	Resistive	Dimensions	
Adjustments (Z/S)	Trim POTS, Zero= 0-17 PSIG & Span= 3-20 PSIG	PVI-1	4.9"W x 3.4"H x 2"D (12.4 x 8.6 x 5.1 cm)
Normal Measurement Range	0-20 PSIG	PVI-2	3.25"W x 3.25"H x 1.75"D, (8.26 x 8.26 x 4.45 cm)
Overpressure (Burst)	60 PSIG (413 kPa)	Weight	
Max Operating Pressure (Proof)	30 PSIG (206 kPa)	PVI-1	Enclosed 0.85 lb (0.39 Kg)
Operating Temperature	32 to 12°F2 (0 to 50°C)	PVI-2	Snap track 0.75 lb (0.34 Kg)
Operating Humidity	10 to 95% Non-condensing	Approvals	RoHS
		Warranty	1.5 years

* Add 0.6"H (1.5 cm) each for mounting tabs and 2.3"H (5.8 cm) for gauge option.



WIRING



CALIBRATION

Models PVI-1 and PVI-2 are factory calibrated for 0-20 psig (0-137.9 kPa). If another pressure range is required, select the pressure zero range from Table 1 and set SW1 and SW2 accordingly. Then, select the pressure span range (high pressure minus low pressure) required from Table 2 and set SW3 and SW4. Apply the low-end pressure and adjust the zero pot for the desired output. Apply the high-end pressure and adjust the span pot. Repeat as required.

Example: To monitor an 8-13 psig signal, the pressure zero range is 8, so set SW1 ON and SW2 OFF. The pressure span range is 5 (13-8 = 5), so set SW3 OFF and SW4 OFF.

TABLE 1. PRESSURE ZERO RANGE

ZERO	SW1	SW2
0.00-4.25 psig (0-29.3 kPa)	ON	ON
4.25-8.50 psig (29.3-58.6 kPa)	ON	OFF
8.50-12.75 psig (58.6-87.9 kPa)	OFF	ON
12.75-17.00 psig (87.9 kPa-117.2 kPa)	OFF	OFF

TABLE 2. PRESSURE SPAN RANGE

SPAN	SW3	SW4
3.00-7.25 psig (20.7-50.0 kPa)	OFF	OFF
7.25-11.50 psig (50.0-79.3 kPa)	OFF	ON
11.50-15.75 psig (79.3-108.6 kPa)	ON	OFF
15.75-20.00 psig (108.6-137.9 kPa)	ON	ON

ORDERING INFORMATION

MODEL	DESCRIPTION
PVI-1	Pressure transmitter
	OPTIONS (must be factory installed)
	43 Pressure indication gauge
	47 DIN rail mounting
C Special calibration (specify range when ordering)	

Example: PVI-1-43-47 Enclosed pressure transmitter with pressure indication gauge and DIN rail mounting

MODEL	DESCRIPTION
PVI-2	Track-mounted pressure transmitter
	OPTIONS (must be factory installed)
	G Pressure indication gauge
	C Special calibration (specify range when ordering)

Example: PVI-2-G Track-mounted pressure transmitter with pressure gauge